


```
1 NUMBER OF SEQ ID NOS: 506
2 SEQ ID NO: 163
3 LENGTH: 293
4 TYPE: PRT
5 ORGANISM: Homo sapiens
US-10-528-2608-163

Query Match
Best Local Similarity 100.01; Score 1649; DB 6; Length 293;
Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MATHESVIFSSASLAVYVDLSLPENFQEPFNANNMLNNTYKFOIATGSLIVHEA 60
D 1 MATHESVIFSSASLAVYVDLSLPENFQEPFNANNMLNNTYKFOIATGSLIVHEA 60
Oy 61 LVFLPCLPGLPQFIPNKKYKIQKDEPTEHQKCFVLLPNHFCIQPLICGTYTFT 120
D 61 LVFLPCLPGLPQFIPNKKYKIQKDEPTEHQKCFVLLPNHFCIQPLICGTYTFT 120
Oy 121 EYFNIPYDMEMPRPYTLARCGCAVIEDTHNYFLRLHLHHRKYKHYKHVEPQPF 180
D 121 EYFNIPYDMEMPRPYTLARCGCAVIEDTHNYFLRLHLHHRKYKHYKHVEPQPF 180
Oy 181 GHEAYNPLETLIGTGPFQFVLLCDHYLLMAMVTRILETIDWNSGYDIFLPLNL 240
D 181 GHEAYNPLETLIGTGPFQFVLLCDHYLLMAMVTRILETIDWNSGYDIFLPLNL 240
Oy 241 IFFYAGSRHHDPHHNFIGNYASTFTFWMDRIFGDSQYWAYNERKKFEKTE 293
D 241 IFFYAGSRHHDPHHNFIGNYASTFTFWMDRIFGDSQYWAYNERKKFEKTE 293

RESULT 3
US-10-219-0518-2382
1 Sequence 2382, Application US/102190518
2 Publication No. US20070015145A1
3 APPLICANT: The General Hospital Corporation doing business as Massachusetts General
4 APPLICANT: INVENTOR: Hospital / Bayer AG
5 TITLE OF INVENTION: Nucleotide sequences involved in pain
6 FILE REFERENCE: Lea 35693 Foreign Countries
7 CURRENT APPLICATION NUMBER: US/10/219,0518
8 PRIOR FILING DATE: 2003-05-09
9 PRIOR APPLICATION NUMBER: US 60/312,147
10 PRIOR FILING DATE: 2001-08-14
```

http://es/ScoreAccessWeb/GelItem.action?AppId=10753267&seqId=110556&ItemName=20070205_152801_us-10-753-267-20.r... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070205_152801_us-10-753-267-20.rnphn. Page 7 of 19

```
1 APPLICANT: CARRING, JOHN
2 TITLE OF INVENTION: COLLECTIONS OF MATCHED BIOLOGICAL REAGENTS AND METHODS FOR
3 TITLE OF INVENTION: IDENTIFYING MATCHED REAGENTS
4 FILE REFERENCE: INV-1005-UT2
5 CURRENT APPLICATION NUMBER: US/11/371,354
6 PRIOR FILING DATE: 2006-03-07
7 PRIOR APPLICATION NUMBER: 60/673,045
8 PRIOR FILING DATE: 2005-03-25
9 PRIOR APPLICATION NUMBER: 60/665,199
10 PRIOR FILING DATE: 2005-03-25
11 PRIOR APPLICATION NUMBER: 60/665,200
12 PRIOR FILING DATE: 2005-03-25
13 PRIOR APPLICATION NUMBER: 60/659,493
14 PRIOR FILING DATE: 2005-03-07
15 PRIOR APPLICATION NUMBER: 60/659,492
16 PRIOR FILING DATE: 2005-03-07
17 PRIOR APPLICATION NUMBER: 60/653,586
18 PRIOR FILING DATE: 2005-02-15
19 PRIOR APPLICATION NUMBER: 60/651,390
20 PRIOR FILING DATE: 2005-02-08
21 NUMBER OF SEQ ID NOS: 78682
22 SOFTWARE: Patent version 3.3
23 SEQ ID NO: 163
24 LENGTH: 293
25 TYPE: PRT
26 ORGANISM: Homo sapiens
US-11-371-354-75335
```

```
Query Match
Best Local Similarity 100.01; Pred. No. 1,6e+146;
Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MATHESVIFSSASLAVYVDLSLPENFQEPFNANNMLNNTYKFOIATGSLIVHEA 60
D 1 MATHESVIFSSASLAVYVDLSLPENFQEPFNANNMLNNTYKFOIATGSLIVHEA 60
Oy 61 LVFLPCLPGLPQFIPNKKYKIQKDEPTEHQKCFVLLPNHFCIQPLICGTYTFT 120
D 61 LVFLPCLPGLPQFIPNKKYKIQKDEPTEHQKCFVLLPNHFCIQPLICGTYTFT 120
Oy 121 EYFNIPYDMEMPRPYTLARCGCAVIEDTHNYFLRLHLHHRKYKHYKHVEPQPF 180
D 121 EYFNIPYDMEMPRPYTLARCGCAVIEDTHNYFLRLHLHHRKYKHYKHVEPQPF 180
```

http://es/ScoreAccessWeb/GelItem.action?AppId=10753267&seqId=110556&ItemName=20070205_152801_us-10-753-267-20.r... 28/07

```
1 PRIOR APPLICATION NUMBER: US 60/316,382
2 PRIOR FILING DATE: 2001-11-01
3 PRIOR APPLICATION NUMBER: US 60/333,347
4 PRIOR FILING DATE: 2001-11-26
5 NUMBER OF SEQ ID NOS: 14715
6 SOFTWARE: Perl script
7 SEQ ID NO: 2382
8 LENGTH: 293
9 TYPE: PRT
10 ORGANISM: Homo sapiens
US-10-219-0518-2382

Query Match
Best Local Similarity 100.01; Score 1649; DB 6; Length 293;
Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MATHESVIFSSASLAVYVDLSLPENFQEPFNANNMLNNTYKFOIATGSLIVHEA 60
D 1 MATHESVIFSSASLAVYVDLSLPENFQEPFNANNMLNNTYKFOIATGSLIVHEA 60
Oy 61 LVFLPCLPGLPQFIPNKKYKIQKDEPTEHQKCFVLLPNHFCIQPLICGTYTFT 120
D 61 LVFLPCLPGLPQFIPNKKYKIQKDEPTEHQKCFVLLPNHFCIQPLICGTYTFT 120
Oy 121 EYFNIPYDMEMPRPYTLARCGCAVIEDTHNYFLRLHLHHRKYKHYKHVEPQPF 180
D 121 EYFNIPYDMEMPRPYTLARCGCAVIEDTHNYFLRLHLHHRKYKHYKHVEPQPF 180
Oy 181 GHEAYNPLETLIGTGPFQFVLLCDHYLLMAMVTRILETIDWNSGYDIFLPLNL 240
D 181 GHEAYNPLETLIGTGPFQFVLLCDHYLLMAMVTRILETIDWNSGYDIFLPLNL 240
Oy 241 IFFYAGSRHHDPHHNFIGNYASTFTFWMDRIFGDSQYWAYNERKKFEKTE 293
D 241 IFFYAGSRHHDPHHNFIGNYASTFTFWMDRIFGDSQYWAYNERKKFEKTE 293

RESULT 4
US-11-371-354-75335
1 Sequence 75335, Application US/11371354
2 Publication No. US2006027594A1
3 GENERAL INFORMATION:
```

http://es/ScoreAccessWeb/GelItem.action?AppId=10753267&seqId=110556&ItemName=20070205_152801_us-10-753-267-20.r... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070205_152801_us-10-753-267-20.rnphn. Page 8 of 19

```
Oy 181 GHEAYNPLETLIGTGPFQFVLLCDHYLLMAMVTRILETIDWNSGYDIFLPLNL 240
D 181 GHEAYNPLETLIGTGPFQFVLLCDHYLLMAMVTRILETIDWNSGYDIFLPLNL 240
Oy 241 IFFYAGSRHHDPHHNFIGNYASTFTFWMDRIFGDSQYWAYNERKKFEKTE 293
D 241 IFFYAGSRHHDPHHNFIGNYASTFTFWMDRIFGDSQYWAYNERKKFEKTE 293

RESULT 5
US-10-219-0518-2380
1 Sequence 2380, Application US/102190518
2 Publication No. US20070015145A1
3 GENERAL INFORMATION:
4 APPLICANT: The General Hospital Corporation doing business as Massachusetts General
5 APPLICANT: Hospital / Bayer AG
6 TITLE OF INVENTION: Nucleotide sequences involved in pain
7 FILE REFERENCE: Lea 35693 Foreign Countries
8 CURRENT APPLICATION NUMBER: US/10/219,0518
9 CURRENT FILING DATE: 2003-05-09
10 PRIOR APPLICATION NUMBER: US 60/312,147
11 PRIOR FILING DATE: 2001-08-14
12 PRIOR APPLICATION NUMBER: US 60/316,382
13 PRIOR FILING DATE: 2001-11-26
14 PRIOR APPLICATION NUMBER: US 60/333,347
15 PRIOR FILING DATE: 2001-11-26
16 NUMBER OF SEQ ID NOS: 14715
17 SOFTWARE: Perl script
18 SEQ ID NO: 2380
19 LENGTH: 293
20 TYPE: PRT
21 ORGANISM: Rattus norvegicus
US-10-219-0518-2380

Query Match
Best Local Similarity 88.71; Pred. No. 3,2e+132;
Matches 260; Conservative 15; Mismatches 18; Indels 0; Gaps 0;

Oy 1 MATHESVIFSSASLAVYVDLSLPENFQEPFNANNMLNNTYKFOIATGSLIVHEA 60
D 1 MATHESVIFSSASLAVYVDLSLPENFQEPFNANNMLNNTYKFOIATGSLIVHEA 60
```

http://es/ScoreAccessWeb/GelItem.action?AppId=10753267&seqId=110556&ItemName=20070205_152801_us-10-753-267-20.r... 28/07

Oy 153 HTFHLHNRKAYVYKHKHHPQAFQFGEAEVAMPLETLIGTGFPG--IVLCLD-- 208
Db 155 HWYHNAVLVGYLVAIYHNNHTYAPFGLAASAPETALGIG-VVCGFVLLAVTG 213
Oy 209 --RVLWAMVIRLETDVNSGYDPLNPLNIPFYAGSRHDPHNFQHYASTFT 266
Db 214 EKLHPLFTVILKALPOADSHSGDYFWSLHILPFWAGAHHRDHKEFTGYASTFT 273
Oy 276 WDRIRPOTDQVNAKNEKXK 287
Db 274 WDRYCLDTEAGADAKRREK 294

RESULT 10
US-11-330-403-12213
; Sequence 7584, Application US/1130403
; Publication No. US20060159563A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53629)B
; CURRENT APPLICATION NUMBER: US/11/330, 403
; CURRENT FILING DATE: 2006-01-12
; NUMBER OF SEQ ID NOS: 19250
; SEQ ID NO 12213
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE: Unsur
; LOCUS: (1) (264)
; OTHER INFORMATION: unsure at all xaa locations
US-11-330-403-12213

Query Match 33.31; Score 548.5; DB 7; Length 264;
Best Local Similarity 39.61; Pred. No. 4e-44;
Matches 111; Conservative 49; Mismatches 97; Indels 23; Gaps 6;
Oy 20 VDSLLPENFLDEPTNANVNMVNTKSPQIAVSLVHEALYFLCLPGLPFIPIYK 79
Db 1 MDSLV-----ESQVYVANSFDPQALCSIVHETVFTSLGPLYLLERTGLLS 51
Oy 80 RYKIQDKPFTVBNQKCYKVLPHRHCPLIGCTYFTYFNIPYDQEMRPFY-- 137
Db 32 NTKIQ-TRHTTQAGACIAVLLPFSICMPLNATVTKMGQSGSP-LVSTYTK 109

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=110556&ItemName=20070205_152801_us-10-753-267-20.t... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070205_152801_us-10-753-267-20.mphn. Page 15 of 19

Db 159 YGPIYRHFHKHVRHSAPFGASVAMPLEILLGAGGVVPLAVCYTHDHLVNTM 218
Oy 217 VTIRLETDVNSGYDPLNPLNIPFYAGSRHDPHNFQHYASTFTWDRIRPOTDS 276
Db 219 ITLRFQVNSHAGYDFWSLHILPFWAGAHHRDHNFANFSPFMDVAVLKTD 278
Oy 277 QYNAKNEK--KRFKTEK 293
Db 279 NTHQTQARLAKNTAESR 297

RESULT 12
US-11-330-403-8653
; Sequence 8653, Application US/1130403
; Publication No. US20060159563A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Yihua
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53629)B
; CURRENT APPLICATION NUMBER: US/11/330, 403
; CURRENT FILING DATE: 2006-01-12
; NUMBER OF SEQ ID NOS: 19250
; SEQ ID NO 8653
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Zea mays
US-11-330-403-8653

Query Match 32.91; Score 542.5; DB 7; Length 291;
Best Local Similarity 38.61; Pred. No. 1.6e-43;
Matches 108; Conservative 49; Mismatches 98; Indels 25; Gaps 6;
Oy 27 NPLQSP-----FNANVNLNHTYAPFGLAASAPETALGIG-VVCGFVLLAVTG 78
Db 17 SPLPSAIVLSAISDAAGVLLANFTETQATVTLHETVFTLSGLSPILFEPGLF 76
Oy 79 KRYIKQKPEFBNQKCYKVLPHRHCPLIGCTYFTYFNIPYDQEMRPFY 134
Db 77 AKYIKQ-KENTAYQNRVLSLHVLHVCVLPWIFSTPAPYFNGHRSLSL-----LPH 130
Oy 135 WYFLARFCQAVEDTWHVTHLHNRKAYVYKHKHHPQAFQFGEAEVAMPLETL 194
Db 131 WSVVSVQVLYFLVEDIPFYGHRAHRTKVLVNVHVSVHEVYATPGLSETAPAEILP 190
Oy 195 LGTGFPGIVLCLHNVILLWAMVIRLETDVNSGYDPLNPLNIPFYAGSRHDPH 254

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=110556&ItemName=20070205_152801_us-10-753-267-20.t... 28/07

Oy 138 --LIAREFCGAVEDTWHVTHLHNRKAYVYKHKHHPQAFQFGEAEVAMPLETL 195
Db 110 KVSAGQILFTFTIEDFYVFGVSHRLTSLVLYNVHVSVHEVYATPGLSETAPAEILP 169
Oy 196 GTGFGIVLLCDRVILLWAMVIRLETDVNSGYDPLNPLNIPFYAGSRHDPH 255
Db 170 GFATFGALTPCHLITLHVLVRIETVEAGCTGTFPSPNTPLTGGAUPHUTHR 229
Oy 256 NFI---GHVASTFTWDRIRPOTDSQYNAKNEKRFKKT 292
Db 230 LLYTKSGNYSFTVNMWIPOTDKGY-----RKLAKRET 264

RESULT 11
US-11-330-403-7584
; Sequence 7584, Application US/1130403
; Publication No. US20060159563A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53629)B
; CURRENT APPLICATION NUMBER: US/11/330, 403
; CURRENT FILING DATE: 2006-01-12
; NUMBER OF SEQ ID NOS: 19250
; SEQ ID NO 7584
; LENGTH: 300
; TYPE: PRT
; ORGANISM: Schistosaccharomyces pombe
US-11-330-403-7584

Query Match 33.21; Score 548; DB 7; Length 300;
Best Local Similarity 36.71; Pred. No. 5.1e-44;
Matches 95; Conservative 60; Mismatches 72; Indels 32; Gaps 7;
Oy 54 SLVHEALYFLCLPGLPFIPIYMKYKIQKQKPEFBNQKCYKVLPHRHCPLI 113
Db 52 SPLHRLTYPCGTFPHNIDAPYFNNKIQKPYTDLQDQCTRVLSHRTVPLQI 111
Oy 114 -----GCTYFTYFNIPYD-----WEMHNPVYLLARCPGCAVIEDTWHVTHLH 161
Db 112 WFLPDKCATGCLST--SVFPFVPMVQV--ITLFPFL-----EDTMVYNAHRLPH 158
Oy 162 HRYKYVYKHKHHPQAFQFGEAEVAMPLETLIGTGFPGIVLCLD-----NVILLWAM 216

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=110556&ItemName=20070205_152801_us-10-753-267-20.t... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070205_152801_us-10-753-267-20.mphn. Page 16 of 19

Db 191 LGPATVNGVALTGPCHLITLHVLVRIETVEAGCTGTFPSPNTPLTGGAUPHUTHR 230
Oy 255 MNFI---GHVASTFTWDRIRPOTDSQYNAKNEKRFKKT 291
Db 251 RVLYTSQYNAFTYPMVQVPMVQVNDY---RKAATIEEK 286

RESULT 13
US-11-520-715-6110
; Sequence 6110, Application US/11320715
; Publication No. US20070011783A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: 05/11/520, 715
; CURRENT FILING DATE: 2006-09-14
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 6110
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE: Unsur
; LOCUS: (1) (291)
; OTHER INFORMATION: Clone ID: L1B333-023-H8_F11.pap
US-11-520-715-6110

Query Match 32.91; Score 542.5; DB 7; Length 291;
Best Local Similarity 38.61; Pred. No. 1.6e-43;
Matches 108; Conservative 49; Mismatches 98; Indels 25; Gaps 6;
Oy 27 NPLQSP-----FNANVNLNHTYAPFGLAASAPETALGIG-VVCGFVLLAVTG 78
Db 17 SPLPSAIVLSAISDAAGVLLANFTETQATVTLHETVFTLSGLSPILFEPGLF 76
Oy 79 KRYIKQKPEFBNQKCYKVLPHRHCPLIGCTYFTYFNIPYDQEMRPFY 134
Db 77 AKYIKQ-KENTAYQNRVLSLHVLHVCVLPWIFSTPAPYFNGHRSLSL-----LPH 130

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=110556&ItemName=20070205_152801_us-10-753-267-20.t... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070205_152755_us-10-753-267-20.rpnbm.

ScoreMatch_Pass Results Application List SCORE_System Overview SCORE_EAG Community L Situations

This page gives you Search Results detail for the Application 10753267 and Search Result 20070205_152755_us-10-753-267-20.rpnbm.

Go Back to previous page

GenCore version 6.2
Copyright (c) 1993 - 2007 Bioacceleration Ltd.
ON protein - protein search, using sw model
Run on: February 6, 2007, 06:01:04 : Search time 182 Seconds
(without alignments)
745.725 Million cell updates/sec
Title: US-10-753-267-20
Sequence score: 100.00
Sequence: 1 MATHEWSIFSSASLAVVDSLPENLQEPFNHAKMLNNTYKFIATVGSLLVHEA 293
Scoring table: BLOSUM62
Gapop 10.0 : Gapent 0.5
Searched: 2097797 seqs, 463214858 residues
Total number of hits satisfying chosen parameters: 2097797
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 01
Maximum Match 1001
Listing first 45 summaries
Database : 1: /BNC_Calerra_31053/pcodeata/2/pubpae/US07_PUBCOMB.pep.*
2: /BNC_Calerra_31053/pcodeata/2/pubpae/US08_PUBCOMB.pep.*
3: /BNC_Calerra_31053/pcodeata/2/pubpae/US09_PUBCOMB.pep.*
4: /BNC_Calerra_31053/pcodeata/2/pubpae/US10A_PUBCOMB.pep.*
5: /BNC_Calerra_31053/pcodeata/2/pubpae/US10B_PUBCOMB.pep.*

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105567&ItemName=20070205_152755_us-10-753-267-20.r... 2/6/07

35 379 23.0 361 4 US-10-425-114-64316 Sequence 64316, A
36 379 23.0 361 5 US-10-425-114-64316 Sequence 64316, A
37 378 22.9 297 5 US-10-435-092-8 Sequence 8, Appl
38 375 22.8 299 5 US-10-435-092-10 Sequence 10, Appl
39 375 22.8 301 4 US-10-437-963-13420 Sequence 13, Appl
40 375 22.8 301 5 US-10-435-092-15 Sequence 15, Appl
41 370 22.5 297 4 US-10-425-115-270264 Sequence 270264, A
42 366 22.2 177 3 US-09-168-2358-20 Sequence 20, Appl
43 366 22.2 177 3 US-09-168-2358-20 Sequence 20, Appl
44 363 22.0 301 5 US-10-435-092-16 Sequence 16, Appl
45 361 21.9 213 4 US-10-167-701-51751 Sequence 51751, A
ALIGNMENTS
RESULT 1
US-09-168-2358-20
Sequence 6, Application US/09946406
Patent No. US2002017956A1
GENERAL INFORMATION:
APPLICANT: Heznan, Gail E.
APPLICANT: Kelley, Richard I.
APPLICANT: Lohman, Thomas Joseph
TITLE OF INVENTION: MATERIALS AND METHODS RELATING TO CHOLESTEROL
TITLE OF INVENTION: BIOSYNTHESIS ENZYMES
FILE REFERENCE: 28335/36435
CURRENT APPLICATION NUMBER: US/09/946,406
PRIOR FILING DATE: 2001-09-05
PRIOR APPLICATION NUMBER: 09/588,976
FILING DATE: 2002-06-06
NUMBER OF SEQ ID NOS: 21
SOFTWARE: Patent Ver. 2.0
SEQ ID NO 6
LENGTH: 293
TYPE: PRT
ORGANISM: Homo sapiens
US-09-168-2358-20
Best Match 100.00: Score 1649; DB 3; Length 293;
Query Local Similarity 100.00; Pred. No. 6.8e-161;
Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 MATHEWSIFSSASLAVVDSLPENLQEPFNHAKMLNNTYKFIATVGSLLVHEA 60
1 MATHEWSIFSSASLAVVDSLPENLQEPFNHAKMLNNTYKFIATVGSLLVHEA 60

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105567&ItemName=20070205_152755_us-10-753-267-20.r... 2/6/07

6: /BNC_Calerra_31053/pcodeata/2/pubpae/US11_PUBCOMB.pep.*
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	1649	100.0	293	3	US-09-146-406-6	Sequence 6, Appl
2	1649	100.0	293	4	US-10-353-690-4	Sequence 4, Appl
3	1649	100.0	293	4	US-10-484-978-6	Sequence 6, Appl
4	1649	100.0	293	5	US-10-753-267-20	Sequence 20, Appl
5	1477	89.6	293	5	US-10-784-004-188	Sequence 188, Appl
6	1477	89.6	293	5	US-10-784-004-188	Sequence 368, Appl
7	542.5	32.9	291	4	US-10-425-114-61110	Sequence 61110, A
8	542.5	32.9	291	4	US-10-425-115-270263	Sequence 270263, A
9	541	32.8	318	4	US-10-425-114-42476	Sequence 42476, A
10	541	32.8	318	4	US-10-425-114-47836	Sequence 47836, A
11	539.5	32.7	268	4	US-10-437-963-187247	Sequence 187247, A
12	539.5	32.7	268	4	US-10-437-963-187247	Sequence 187247, A
13	533.5	32.4	294	4	US-10-425-115-270265	Sequence 270265, A
14	529.5	32.1	327	4	US-10-128-714-8311	Sequence 8311, Ap
15	528	32.0	266	4	US-10-437-963-154358	Sequence 154358, A
16	517.5	31.4	271	4	US-10-424-599-246127	Sequence 246127, A
17	504.5	30.6	293	4	US-10-437-963-154360	Sequence 154360, A
18	503.5	30.5	321	4	US-10-022-585-7322	Sequence 7322, Ap
19	492.5	30.2	298	4	US-10-120-715-108037	Sequence 108037, Ap
20	492.5	30.2	298	4	US-10-120-715-108037	Sequence 108037, Ap
21	482.5	29.3	259	5	US-10-735-930-6745	Sequence 6745, Ap
22	472.5	28.7	248	4	US-10-259-194A-220	Sequence 220, App
23	465	28.2	293	4	US-10-128-714-3311	Sequence 3311, Ap
24	464.5	28.2	284	4	US-10-425-115-270268	Sequence 270268, A
25	409	24.8	297	5	US-10-424-599-231951	Sequence 231951, A
26	409	24.8	297	5	US-10-435-092-12	Sequence 12, Appl
27	397	24.1	299	5	US-10-435-092-6	Sequence 6, Appl
28	397	24.1	299	5	US-10-435-092-6	Sequence 7, Appl
29	393.5	23.9	298	5	US-10-435-092-7	Sequence 7, Appl
30	379	23.0	298	5	US-10-435-092-11	Sequence 11, Appl
31	379	23.0	301	4	US-10-425-115-356023	Sequence 356023, A
32	379	23.0	301	5	US-10-435-092-5	Sequence 5, Appl
33	379	23.0	339	4	US-10-425-114-61805	Sequence 61805, A
34	379	23.0	335	4	US-10-425-114-60530	Sequence 60530, A

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105567&ItemName=20070205_152755_us-10-753-267-20.r... 2/6/07

Db 1 MATHEWSIFSSASLAVVDSLPENLQEPFNHAKMLNNTYKFIATVGSLLVHEA 60
OY 61 LVFLPLCPFQPIPNYKIKDKFETENQKGFVLLPNHFCIQLPLCGTYTTF 120
61 LVFLPLCPFQPIPNYKIKDKFETENQKGFVLLPNHFCIQLPLCGTYTTF 120
OY 121 EYFNIPYDMEPRNFTLLAGFCGAVI EDTHYTFJRLHLHKRIYKIKVHKEQAPF 180
121 EYFNIPYDMEPRNFTLLAGFCGAVI EDTHYTFJRLHLHKRIYKIKVHKEQAPF 180
OY 181 ONEAYHAPLETILGTGFFIGVLCDVILLWAVTIRLLETIDVHSGVDIPLMPLH 240
181 ONEAYHAPLETILGTGFFIGVLCDVILLWAVTIRLLETIDVHSGVDIPLMPLH 240
OY 241 IFYAGSRHNDPHNFTIGNASTFTWDRITGDSQYANNEKKEKTE 293
241 IFYAGSRHNDPHNFTIGNASTFTWDRITGDSQYANNEKKEKTE 293
RESULT 2
US-10-353-690-4
Sequence 4, Application US/10353690
Publication No. US2002015840A1
GENERAL INFORMATION:
APPLICANT: Lohman, Thomas Joseph
APPLICANT: Lohman, Thomas Joseph
APPLICANT: Chun, Miyoung
APPLICANT: Galvin, Katherine M.
APPLICANT: Healy, Aileen
APPLICANT: Accott, Susan L.
APPLICANT: Donoghue, Mary
APPLICANT: Donoghue, Mary
APPLICANT: Rodriquez, Jacquelin
APPLICANT: Rodriquez, Jacquelin
TITLE OF INVENTION: Methods and compositions for treating
TITLE OF INVENTION: cardiovascular disease using 1682, 6193, 7771, 14395,
TITLE OF INVENTION: 29002, 33216, 43726, 69292, 26136, 32427, 2402, 7747, 1720,
TITLE OF INVENTION: 1371, 60491, 1371, 7077, 3207, 1419, 18036, 16105, 38650,
TITLE OF INVENTION: 1425, 1848, 1848, 2446, 2446, 2446, 2446, 2446, 2446,
TITLE OF INVENTION: 10533, 18610, 8165, 2446, 2446, 2446, 2446, 2446,
TITLE OF INVENTION: 283, 2554, 9464, 17799, 26686, 43648, 32135, 12208, 2914,
TITLE OF INVENTION: 51130, 19489, 21833, 2917, 59590, 15992, 2094, 2252, 3474,
TITLE OF INVENTION: 9792, 15400, 1452 or 6385 molecules
FILE REFERENCE: NP102-018P:INQNM
CURRENT APPLICATION NUMBER: US/10/353,690
CURRENT FILING DATE: 2001-01-29

1 PRIOR APPLICATION NUMBER: 60/353,224
2 PRIOR FILING DATE: 2002-02-01
3 PRIOR APPLICATION NUMBER: 60/364,529
4 PRIOR FILING DATE: 2002-03-15
5 PRIOR APPLICATION NUMBER: 60/371,861
6 PRIOR FILING DATE: 2002-04-19
7 PRIOR APPLICATION NUMBER: 60/376,287
8 PRIOR FILING DATE: 2002-05-01
9 PRIOR APPLICATION NUMBER: 60/388,080
10 PRIOR FILING DATE: 2002-06-12
11 PRIOR APPLICATION NUMBER: 60/390,971
12 PRIOR FILING DATE: 2002-06-24
13 PRIOR APPLICATION NUMBER: 60/394,130
14 PRIOR FILING DATE: 2002-07-03
15 PRIOR APPLICATION NUMBER: 60/394,797
16 PRIOR FILING DATE: 2002-07-03
17 PRIOR APPLICATION NUMBER: 60/404,904
18 PRIOR FILING DATE: 2002-08-21
19 PRIOR APPLICATION NUMBER: 60/405,450
20 PRIOR FILING DATE: 2002-08-23
21 Remaining Prior Application data removed - See File Wrapper or PALM.
22 NUMBER OF SEQ ID NOS: 126
23 SOFTWARE: FastSeq for Windows Version 4.0
24 SEQ ID NO: 1
25 LENGTH: 293
26 TYPE: PRT
27 ORGANISM: Homo Sapiens
28 US-10-353-690-4

Query Match 100.0%; Score 1649; DB 4; Length 293;
Best Local Similarity 100.0%; Pred. No. 6.8e-161;
Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Dy 1 MATHESVIFSSASLAVEYDVSLLPENPLQEPFNANNMLNNTYKFOIATGSLIVHEA 60
1 MATHESVIFSSASLAVEYDVSLLPENPLQEPFNANNMLNNTYKFOIATGSLIVHEA 60
Dy 61 LVYFCLPGPLQFPIPMKYKIKONKPEHMKCFVLLPNHFCIOLPLIGCTYPTT 120
61 LVYFCLPGPLQFPIPMKYKIKONKPEHMKCFVLLPNHFCIOLPLIGCTYPTT 120
Dy 121 EYFNIDYMDHPRNRYVTLKACGCAVIEDTNYFJRLHLHNRYYIKYHKVHNEQAPF 180
121 EYFNIDYMDHPRNRYVTLKACGCAVIEDTNYFJRLHLHNRYYIKYHKVHNEQAPF 180
Dy 121 EYFNIDYMDHPRNRYVTLKACGCAVIEDTNYFJRLHLHNRYYIKYHKVHNEQAPF 180

http://es/ScoreAccessWeb/GdtItem.action?AppId=10753267&seqId=1105367&ItemName=20070205_152755_us-10-753-267-20.rnphm 2/10/07

121 EYFNIDYMDHPRNRYVTLKACGCAVIEDTNYFJRLHLHNRYYIKYHKVHNEQAPF 180
121 EYFNIDYMDHPRNRYVTLKACGCAVIEDTNYFJRLHLHNRYYIKYHKVHNEQAPF 180
Dy 181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
Dy 181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293
241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293
Dy 241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293

RESULT 4
US-10-753-267-20
Publication No. US2002037946A1
GENERAL INFORMATION:
APPLICANT: Millennium Pharmaceuticals, Inc.
APPLICANT: Realy, Alleen L.
APPLICANT: Acton, Susan L.
APPLICANT: O'Driscoll, Katherine M.
APPLICANT: Rodriguez-Way, Annelie
APPLICANT: Tomlinson, James E.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
TITLE OF INVENTION: CARDIOVASCULAR DISEASE USING 1722, 10280, 59917, 85533,
TITLE OF INVENTION: 10653, 9235, 21669, 17194, 2210, 6169, 10102, 21061, 17662,
TITLE OF INVENTION: 3533, 9462, 9123, 12788, 17759, 65552, 1241, 21416, 33770,
TITLE OF INVENTION: 9380, 2589534, 33556, 53656, 44193, 32612, 10671, 261,
TITLE OF INVENTION: 44570, 41922, 2417, 19319, 43969, 8921, 89931, 955,
TITLE OF INVENTION: 32345, 966, 1920, 17318, 1510, 14180, 26005, 554, 16408,
TITLE OF INVENTION: 42028, 112091, 13866, 13942, 1673, 54946 OR 2419
FILE REFERENCE: MF03-003P1NOMH7
CURRENT FILING DATE: 2004-01-08
PRIOR APPLICATION NUMBER: US 60/439,683
PRIOR FILING DATE: 2003-01-13
PRIOR APPLICATION NUMBER: US 60/445,216
PRIOR FILING DATE: 2003-02-05
PRIOR APPLICATION NUMBER: US 60/448,016
PRIOR FILING DATE: 2003-02-18

http://es/ScoreAccessWeb/GdtItem.action?AppId=10753267&seqId=1105367&ItemName=20070205_152755_us-10-753-267-20.rnphm 2/10/07

181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
Dy 241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293
241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293
Dy 241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293

RESULT 3
US-10-684-978-6
Sequence 6; Application US/10684978
Publication No. US20040166485A1
GENERAL INFORMATION:
APPLICANT: Herman, Gail E.
APPLICANT: O'Driscoll, Katherine M.
APPLICANT: Rodriguez-Way, Annelie
APPLICANT: Tomlinson, James E.
TITLE OF INVENTION: MATERIALS AND METHODS RELATING TO CHOLESTEROL
TITLE OF INVENTION: BIOSYNTHESIS ENZYMES
FILE REFERENCE: 28335/16435
CURRENT APPLICATION NUMBER: US/10/684,978
CURRENT FILING DATE: 2003-10-14
PRIOR APPLICATION NUMBER: US 60/398,976
PRIOR FILING DATE: 2003-06-01
PRIOR APPLICATION NUMBER: 60/137,020
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 28
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 6
LENGTH: 293
TYPE: PRT
ORGANISM: Homo sapiens
US-10-684-978-6

Query Match 100.0%; Score 1649; DB 4; Length 293;
Best Local Similarity 100.0%; Pred. No. 6.8e-161;
Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Dy 1 MATHESVIFSSASLAVEYDVSLLPENPLQEPFNANNMLNNTYKFOIATGSLIVHEA 60
1 MATHESVIFSSASLAVEYDVSLLPENPLQEPFNANNMLNNTYKFOIATGSLIVHEA 60
Dy 61 LVYFCLPGPLQFPIPMKYKIKONKPEHMKCFVLLPNHFCIOLPLIGCTYPTT 120
61 LVYFCLPGPLQFPIPMKYKIKONKPEHMKCFVLLPNHFCIOLPLIGCTYPTT 120
Dy 61 LVYFCLPGPLQFPIPMKYKIKONKPEHMKCFVLLPNHFCIOLPLIGCTYPTT 120

http://es/ScoreAccessWeb/GdtItem.action?AppId=10753267&seqId=1105367&ItemName=20070205_152755_us-10-753-267-20.rnphm 2/10/07

121 EYFNIDYMDHPRNRYVTLKACGCAVIEDTNYFJRLHLHNRYYIKYHKVHNEQAPF 180
121 EYFNIDYMDHPRNRYVTLKACGCAVIEDTNYFJRLHLHNRYYIKYHKVHNEQAPF 180
Dy 181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
Dy 181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293
241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293
Dy 241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293

Query Match 100.0%; Score 1649; DB 5; Length 293;
Best Local Similarity 100.0%; Pred. No. 6.8e-161;
Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Dy 1 MATHESVIFSSASLAVEYDVSLLPENPLQEPFNANNMLNNTYKFOIATGSLIVHEA 60
1 MATHESVIFSSASLAVEYDVSLLPENPLQEPFNANNMLNNTYKFOIATGSLIVHEA 60
Dy 61 LVYFCLPGPLQFPIPMKYKIKONKPEHMKCFVLLPNHFCIOLPLIGCTYPTT 120
61 LVYFCLPGPLQFPIPMKYKIKONKPEHMKCFVLLPNHFCIOLPLIGCTYPTT 120
Dy 61 LVYFCLPGPLQFPIPMKYKIKONKPEHMKCFVLLPNHFCIOLPLIGCTYPTT 120

121 EYFNIDYMDHPRNRYVTLKACGCAVIEDTNYFJRLHLHNRYYIKYHKVHNEQAPF 180
121 EYFNIDYMDHPRNRYVTLKACGCAVIEDTNYFJRLHLHNRYYIKYHKVHNEQAPF 180
Dy 181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
Dy 181 GHEAYNPLETLLGTGFFIGVLCDRYVLLMAWVTIRLETDVHSGVDIFLPLNL 240
241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293
241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293
Dy 241 IFTFAGSHRDPHNFIGNYASTFTTWDRIFCTDSQYNAWEKRRKFEKTE 293

http://es/ScoreAccessWeb/GdtItem.action?AppId=10753267&seqId=1105367&ItemName=20070205_152755_us-10-753-267-20.rnphm 2/10/07

Db 191 LGATVAGPALTGPHLTALVAVLETVGASGTHFPHWJSVFLPLVGGSDPHVDR 250
Oy 255 MWFI---GNYASTFWMDRIFGTSDYNAHNERKKFEK 291
Db 231 RVLTSGNASTFVMDLFGTDNDY---RKATIEEK 286

RESULT 9
US-10-425-114-42476
/ Sequence 42476, Application US/10425114
/ Publication No. US20040034886A1
/ GENERAL INFORMATION:
/ APPLICANT: Liu, Jingdong
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Screen, Steven E
/ APPLICANT: Tabaska, Jack E
/ APPLICANT: Cao, Yonpei
/ APPLICANT: Cao, Yonpei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
/ FILE REFERENCE: 38-2153331B
/ CURRENT APPLICATION NUMBER: US/10/425, 114
/ NUMBER OF SEQ ID NOS: 20486
/ NUMBER OF SEQ ID NOS: 20486
/ SEQ ID NO 187247
/ LENGTH: 268
/ TYPE: PRT
/ ORGANISM: Zea mays
/ FEATURE:
/ OTHER INFORMATION: Clone ID: 700235424_FLI.pep
US-10-425-114-42476

Query Match 32.04; Score 541; DB 4; Length 318;
Best Local Similarity 37.54; Pred. No. 7.8e-47;
Matches 110; Conservative 53; Mismatches 98; Indels 32; Gaps 7;
Oy 6 SVSIFSSASLAVSYVDSLLPENLLOEPPKNNWNNMLNNTFQATWGLSVLVEALVFLF 65
Db 46 S1SLTMAWPSA--1DS-----AQGLIANFTFOLATVYVTLRETVFLS 90
Oy 66 CLGFLGFTFPMKKYKIOKPKTEWQKCVFLFNHPCIOGLPGCTGTYTTEYF-- 123
Db 91 GLPLSLFERGLCAFKYIKQK-KSHTSAYQRCVRLILVYVNCVPMFTSPAFKMG 149
Oy 124 --NIPYDWMHNPWFLLARCGAVDPRHTFLLRLHKKRYIKYIKHWHFQAPG 181

US-10-437-963-187247
/ Sequence 187247, Application US/10437963
/ Publication No. US2004012349A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Cao, Yonpei
/ APPLICANT: Wu, Wei
/ APPLICANT: Boubharov, Andrey A.
/ APPLICANT: Baibzok, Brad
/ APPLICANT: Li, Ping
/ TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
/ FILE REFERENCE: 38-2153231B
/ CURRENT APPLICATION NUMBER: US/10/437, 963
/ CURRENT FILING DATE: 2003-05-18
/ NUMBER OF SEQ ID NOS: 204866
/ SEQ ID NO 187247
/ LENGTH: 268
/ TYPE: PRT
/ ORGANISM: Oryza sativa
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MPT4530_1396C-1.pep
US-10-437-963-187247

Query Match 32.74; Score 539.5; DB 4; Length 268;

Db 150 RSLP-----LPHWVVSQVLPYVLEDFITFGHIALTKMYKRVHVEYATPG 204
Oy 182 MEAYVHPILETILGCTGFFGIVLGRVILWMAWVTRILLETIDVHSGYDIPLMPLML 241
Db 205 LTSEYVHPILETILGCTGFFGIVLGRVILWMAWVTRILLETIDVHSGYDIPLMPLML 264
Oy 242 PFYAGSRHDPHNNFT---GNYASTFWMDRIFGTSDYNAHNERKKFEK 291
Db 265 PLVGGSDPHVDRHVRVLTSGNASTFVMDLFGTDNDY---RKATIEEK 313

RESULT 10
US-10-435-114-47836
/ Sequence 47836, Application US/10425114
/ Publication No. US20040034886A1
/ GENERAL INFORMATION:
/ APPLICANT: Liu, Jingdong
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Screen, Steven E
/ APPLICANT: Tabaska, Jack E
/ APPLICANT: Cao, Yonpei
/ APPLICANT: Cao, Yonpei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
/ FILE REFERENCE: 38-2153331B
/ CURRENT APPLICATION NUMBER: US/10/425, 114
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 73128
/ SEQ ID NO 17836
/ LENGTH: 314
/ TYPE: PRT
/ ORGANISM: Zea mays
/ FEATURE:
/ OTHER INFORMATION: Clone ID: 700263728_FLI.pep
US-10-435-114-47836

Query Match 32.88; Score 541; DB 4; Length 318;
Best Local Similarity 37.54; Pred. No. 7.8e-47;
Matches 110; Conservative 53; Mismatches 98; Indels 32; Gaps 7;
Oy 6 SVSIFSSASLAVSYVDSLLPENLLOEPPKNNWNNMLNNTFQATWGLSVLVEALVFLF 65
Db 46 S1SLTMAWPSA--1DS-----AQGLIANFTFOLATVYVTLRETVFLS 90

US-10-437-963-187247
/ Sequence 187247, Application US/10437963
/ Publication No. US2004012349A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Cao, Yonpei
/ APPLICANT: Wu, Wei
/ APPLICANT: Boubharov, Andrey A.
/ APPLICANT: Baibzok, Brad
/ APPLICANT: Li, Ping
/ TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
/ FILE REFERENCE: 38-2153231B
/ CURRENT APPLICATION NUMBER: US/10/437, 963
/ CURRENT FILING DATE: 2003-05-18
/ NUMBER OF SEQ ID NOS: 204866
/ SEQ ID NO 187247
/ LENGTH: 268
/ TYPE: PRT
/ ORGANISM: Oryza sativa
/ FEATURE:
/ OTHER INFORMATION: Clone ID: SORBJ-28MAY03-C1622_1.p.p
US-10-437-963-187247

Query Match 32.74; Score 539.5; DB 4; Length 268;

Oy 66 CLGFLGFTFPMKKYKIOKPKTEWQKCVFLFNHPCIOGLPGCTGTYTTEYF-- 123
Db 91 GLPLSLFERGLCAFKYIKQK-KSHTSAYQRCVRLILVYVNCVPMFTSPAFKMG 149
Oy 124 --NIPYDWMHNPWFLLARCGAVDPRHTFLLRLHKKRYIKYIKHWHFQAPG 181
Db 150 RSLP-----LPHWVVSQVLPYVLEDFITFGHIALTKMYKRVHVEYATPG 204
Oy 182 MEAYVHPILETILGCTGFFGIVLGRVILWMAWVTRILLETIDVHSGYDIPLMPLML 241
Db 205 LTSEYVHPILETILGCTGFFGIVLGRVILWMAWVTRILLETIDVHSGYDIPLMPLML 264
Oy 242 PFYAGSRHDPHNNFT---GNYASTFWMDRIFGTSDYNAHNERKKFEK 291
Db 265 PLVGGSDPHVDRHVRVLTSGNASTFVMDLFGTDNDY---RKATIEEK 313

US-10-437-963-187247
/ Sequence 187247, Application US/10437963
/ Publication No. US2004012349A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Cao, Yonpei
/ APPLICANT: Wu, Wei
/ APPLICANT: Boubharov, Andrey A.
/ APPLICANT: Baibzok, Brad
/ APPLICANT: Li, Ping
/ TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
/ FILE REFERENCE: 38-2153231B
/ CURRENT APPLICATION NUMBER: US/10/437, 963
/ CURRENT FILING DATE: 2003-05-18
/ NUMBER OF SEQ ID NOS: 204866
/ SEQ ID NO 187247
/ LENGTH: 268
/ TYPE: PRT
/ ORGANISM: Oryza sativa
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MPT4530_1396C-1.pep
US-10-437-963-187247

Query Match 32.74; Score 539.5; DB 4; Length 268;

Best Local Similarity 38.51; Pred. No. 9e-47;
Matches 102; Conservative 54; Mismatches 92; Indels 17; Gaps 5;
Oy 34 NNNWNNMLNNTFQATWGLSVLVEALVFLGCLPGFTFPMKKYKIOKPKTEW 93
Db 8 ESAYEVLTHFSEFQASLGTLLHSHVFFGLSLLPGLGLGFLSKYIKQ-KSHTPDY 66
Oy 94 QKCFKVLNHPICIQGLPGCTGTYTTEYF---NIPYDWMHNPWFLLARCGAVIE 149
Db 67 QRCVRLILVYVNCVRLITLSVHTFNGLSLTP-----LPHWVVSQVLPFVLE 121
Oy 150 DTHVYVHLLHKKRYIKYIKHWHFQAPGFAEYAHPILETILGCTGFFGIVLGRV 209
Db 122 DFTYVHCHALTKMYKRVHVEYATPGTSEYAHPILETILGCTGFFGIVLGRV 181
Oy 210 VILLWNPTRILLETIDVHSGYDIPLMPLHPIFFKAGSRHNDHNNFT---GHVASTP 266
Db 182 LPTLVNKNVLETVGASGYHFWPSINFLVGGAEFNDVHVRVLTSGNASTF 241
Oy 267 WMDRIFGTSDYNAHNERKKFEK 291
Db 242 YMDLFGTDNDY---RKATIEEK 282

RESULT 12
US-10-167-701-45894
/ Sequence 45894, Application US/10767701
/ Publication No. US20040172684A1
/ GENERAL INFORMATION:
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Screen, Steven E
/ APPLICANT: Cao, Yonpei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
/ FILE REFERENCE: 38-2153351B
/ CURRENT APPLICATION NUMBER: US/10/767, 701
/ CURRENT FILING DATE: 2004-01-29
/ NUMBER OF SEQ ID NOS: 63128
/ SEQ ID NO 45894
/ LENGTH: 268
/ TYPE: PRT
/ ORGANISM: Sorghum bicolor
/ FEATURE:
/ OTHER INFORMATION: Clone ID: SORBJ-28MAY03-C1622_1.p.p
US-10-167-701-45894

Query Match 32.74; Score 539.5; DB 4; Length 268;

```

Quary Match      32.7% ; Score 539.5 ; DB 4; Length 268;
Best Local Similarity 39.6% ; Pred. No. 9e-47;
Match 105; Conservative 48; Mismatches 95; Indels 17; Gaps 5;

Oy      3A KANAKGKNNVETQATPAGSGSLVHGAALYFCLGDFPOFPFNKKYKLGVDGSEWEN 93
       :::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::
Db      9 SNAVOLLNPFQTALVTTLTLLHEVTFGLSPFLFERGLPFAKYIQR-KNSTPA 67

Oy      4A QMKCFVLPLNFHCITLGGCTGYTFEYF---NIPDWERPNRPNYFLASDCQAVTE 149
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      68 QCKQLHLVLTWVTPVSTPTAFTRNGELNSLP-----LHMVTVYGVSQVFYLE 122

Oy      150 PTNVYTHLLHRLHKRYATIKHVHVEAPQPKAEVAAMPLETLTGCTFGGIGVILCHD 209
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      123 DFTFYGHRAKLIVKHVHIEAYFVGLTSFEVTAUPARILLFGATVYGVGLTOPH 182

Oy      210 VLLANKMPTLLELTGTROGDVLRUPLRNPFAKESAMUDSNHFVI---GHVASTFF 266
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      183 LPTLVLMWLRLLENVAHGSHPMFSNPFLPYGSDGRHRVLTGSNTGYASTPT 242

Oy      267 WDRIPTGDSOTNAWEKRERKFKE 291
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      243 THMLGCTGTDNOT----NKATIER 263


RESULT 13
US-10-425-115-270265
; Sequence 270265, Application US/10425115
; Publication No. 2520040214712A1
; INVENTOR: Zhai Yuhua
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongmei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-2153221B
; CURRENT APPLICATION NUMBER: US/10/425-115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 270265
; LENGTH: 274
; TYPE: PRT
; ORGANISM: Zsa zsa
```

http://es/ScoreAccessWeb/GetItem.action?AppId=10753267&seqId=1105567&itemName=20070205_152755_us-10-753-267-20.r...

SCORE Search Results Details for Application 10753267 and Search Result 20070205 152755 us-10-753-267-20 rapbm.

```

/ TITLE OF INVENTION: Methods of Use
/ FILE REFERENCE: 10182-018-999
/ CURRENT APPLICATION NUMBER: US 10/1028,714
/ CURRENT FILING DATE: 2007-04-23
/ PRIOR APPLICATION NUMBER: US 60/285,697
/ PRIOR FILING DATE: 2001-04-23
/ PRIOR APPLICATION NUMBER: US 60/285,896
/ PRIOR FILING DATE: 2001-04-23
/ PRIOR APPLICATION NUMBER: US 60/285,899
/ PRIOR FILING DATE: 2001-06-05
/ PRIOR APPLICATION NUMBER: US 60/703,899
/ PRIOR FILING DATE: 2001-07-09
/ PRIOR APPLICATION NUMBER: US 60/716,362
/ PRIOR FILING DATE: 2001-08-31
/ NUMBER OF SEQ ID NOS: 8403
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 9311
/ LENGTH: 327
/ ORGANISM: Aspergillus fumigatus
US-10-128-714-8311

Query Match 32.1%; Score 525.3; Db 4; Length 327;
Basic Local Similarity 38.1%; Pred. No. 1.2e-45;
Matches 140; Conservative 49; Mismatches 93; Indels 25; Gaps 7;

QY 35 NAWPMLNNTKVTQATG--SLIVHAEVLYFLKDLGFLQFIPNNKYIKQDNKPTVE 92
DB 66 SATVAMGN---DVLATGIVFMYGIVGVGVGVV---LDTGTFIKYIKQNKIPSR 121
QY 93 NQKQKQKLLNKKVGTQPLIGCTGYTFFYKNI-----PUDENMYKVFLLACQCA 146
QY 122 EKWQCAVYLLSVTLPQGLPMPHAFGLSTGVSFVPTVNIH---VQALFTF--- 174
QY 147 VIEDTPVYVHLLRHLNKKRYKYNVHVFQAPQEAKEYAYPLTLLIGTGTGIVLL 206
DB 175 VIEDTPVYVHLLRHLNKKRYKYNVHVFQAPQEAKEYAYPLTLLIGTGTGIVLL 234
QY 207 CD-----HVLAMWVTLRLTLLDVHSCVQIPLNPLNLIPYVCSRHHPHFHNFVGHY 261
QY 235 CALTGDLALFTMYVIVLRFQALDASQVEFPFMSLHFLFPFAQGHDLHKKHFKYGHY 294
DB 262 APTFTGGRVFGSDGVQVWKKRKE--FKFKTE 327
DB 295 SSSFNWVPLDTEFLAKPFRRGELTKYKQ 393

```

http://es/ScoreAccessWeb/GellItem.action?AppId=10753267&seqId=105567&ItemName=20070205 152755 us-10-753-267-20... 2/8/07

```

? FEATURE:
? NAME/KEY: unsure
? LOCATION: (1)...(274)
? OTHER INFORMATION: unsure at all Xae locations
? FEATURE INFORMATION: Clone ID: WRT457_176079C.1.pap
US-10-425-115-270245

? Quety Match
? Best Local Similarity 32.41: Score 533.5: DB 4: Length 274:
? Matches 106: Conservative 39.31: Pred. No. 3.6e-46:
? Matches 106: Conservative 43: Mismatches 96: Indels 23: Gaps 5:

Oy 35 HANVHMHVHTFQATLNGSLVGLVHVALFPLCPQFQFDPYKTKYTDHDFEWD 94
Db 11 : : : : : : : : : : : : : : : : : : : : : : : : : :
Oy 10 SAQOLLIAHTFQATLVTWTFLLKTVFLLGFLPFLFQGLKQK-KSTHTA 68
Db 11 : : : : : : : : : : : : : : : : : : : : : : : : : :

Oy 65 KCVVGLVPLRPLCTPLGCTGYVTFYVFN 144
Db 99 NRCVRLUULVYCNVLQPLTFQVTFYVFNIGLSLSE-----LPIHSVDSVLP 123

Oy 145 CAVIEDTWTWYVLRLLHKKRIYKYNKVHGFQFQFQFQFQFQFQFQFQF 204
Db 124 YVLEDFITFPGHRLHLLVGLVHVSHTVATFQTLTSEZAHFAPKFLPGFAYWCPA 183

Oy 205 LLDHIVLILVNAVYVTRILLETLDHVSQYDIPALNLLIPFYASHSDHPHNF 261
Db 184 LTGPHLLTFLNVLNVLAVLELVANSHCVHFFSFLPYCGSDPHYHRLVTKSGY 243

Oy 262 ASTTFWDRIFQDSQYNAWKKKKFKK 291
Db 244 STFTYDNLVGLQDNY-----RKATITEK 269

RESULT 34
US-10-128-714-8311
? Sequence 8311: Application US/10128714
? Sequence 8311: Application US/10128714
? GENERAL INFORMATION:
? APPLICANT: Jiang, Bo
? APPLICANT: Hu, Wendi
? APPLICANT: Tishkoff, Daniel
? APPLICANT: Zamudio, Carlos M
? APPLICANT: Lemieux, Sebastian M
? TITLE OF INVENTION: Identification of Essential Genes In Aspergillus fumigatus and

```

http://es/ScoreAccessWeb/CellItem.action?Appld=10753267&seqId=1105567&ItemName=20070205_152755_us-10753-267-20.r... 2/8/07

SCORE: Search Results Details for Application 10753267 and Search Result 20070205 152755 us-10-753-267-20.rabbm.

```

RESULT 15
US-10-437-963-154338
? Sequence 154358 : Application US/10437963
? Subsequence No. US20040223JAJ1
? GENE: CYP19A1
? APPLICANT: La Rosa, Thomas J.
? APPLICANT: Kovalick, David K.
? APPLICANT: Zhou, Yihua
? APPLICANT: Cao, Yongwei
? APPLICANT: Wu, Wei
? APPLICANT: Bao, Xueqin, Andrey A.
? APPLICANT: Barbasov, Brad
? APPLICANT: Li, Ping
? TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
? TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
? FILE REFERENCE: JP-1(1522)1105/10/437-963
? CURRENT FILING DATE: 2003-05-14
? NUMBER OF SEQ ID NOS: 204966
? SEQ ID NO 154338
? LENGTH: 266
? TYPE: PRT
? FEATUERS: Oryza sativa
? OTHER INFORMATION: Clone ID: PAT_MRT4530_54226C-1.pcp
US-10-437-963-154338

Query Match      32.0% Score 528: DB 4% Length 266;
Sequence Similarity 30.3% Identity 14645;
Matches 104; Conservative 47; Mismatches 96; Indels 16; Gaps 3;

Oy    35  HANVYHLLRHHRIKKYIKMKVHEQFAFGGAAKAPFLETLTGCTFFIGVLGVLCOW 94
      ||| : : : ||||| : : : ||| : : : ||| : : : ||| : : : ||| :
Db    36  SAGEGLVPLPDLQVATVLTWELTETVFLGGALTFERGLPAKYTKLOR-KASPTSG 66
      ||| : : : ||||| : : : ||| : : : ||| : : : ||| : : : ||| :
Oy    95  KKCFGLVPLPDLQVATVLTWELTETVFLGGALTFERGLPAKYTKLOR-KASPTSG 150
      ||| : : : ||||| : : : ||| : : : ||| : : : ||| : : : ||| :
Db    67  KRCLRVLLVHCNCPNLNPVLSYPAFKNGERSLIP-----LPHTMYVSDFLVFPLED 121
      ||| : : : ||||| : : : ||| : : : ||| : : : ||| : : : ||| :
Oy    131 THNYTHRLRHRRIRKKYIKMKVHEQFAFGGAAKAPFLETLTGCTFFIGVLGVLCOW 210
      ||| : : : ||||| : : : ||| : : : ||| : : : ||| : : : ||| :
Db    122 FIYYGGRRLAKTKLVNHNVNHVKATVFCGLSEVAHPAEILAGPATTPGALTPQL 181

```

http://e-/ScoreAccessWeb/GetItem.action?AppId=10753267&seqId=105567&ItemName=20070205_152755-us-10-753-267-20.r... 2/8/07

Oy 211 ILWAVTIRLETDVHGVDSPLUPJLIPFVAGSRHSDYHUNFTI---GNVASTFTW 267
DB 182 PTLUAKVLETVKAGVHFWSPHFLYGGSDTHYHVVLTYSCHVASTFTWY 241
Oy 268 MDRIFGTDSOY---WYNKRKK 287
DB 242 MDVLFCTDSDYKAKAIEEDGR 264

Search completed: February 6, 2007, 06:06:15
Job Time : 184 secs

1841
- Score: 13.844444444444444
- Seq: 11/12/2004


```
Oy 66 CLPCLPGLPOTIPMKYKYLQKDPKQKCVLLPHKRCQLRLGCTTYTTEVF-- 123
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 64 GLPCLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGL 122
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 124 --NIPYDKNPARYFLARCGAVIEDTHYFLHLHLHKRIYKRYHKVHREFOAPG 161
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 123 RSLSP-----LPHVAVVGVGVVFLVEDIFFYGHRAHRLKMLYKHVHREYATPG 177
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 182 MEAYVARELLETCTGCTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 241
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 178 LTSEVARELLETCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 237
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 242 PFYAGSRHNDPHNRHFI--GNYATFTWDRIFGTDGSDQYAYNKKRKKFKK 291
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 238 PLYGSDPHNDHNRHVTYKSTASTFTYHDLFGTDGSDQYAYNKKRKKFKK 286
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

RESULT 3
US-09-439-554-24
/ Sequence 24, Application US/09439554
/ Patent No. 6479733
/ GENERAL INFORMATION:
/ APPLICANT: Kinney, Catherine J.
/ APPLICANT: Odell, Joan T.
/ APPLICANT: Sakai, Hajime
/ APPLICANT: Thorpe, Catherine J.
/ APPLICANT: Kinney, Anthony J.
/ APPLICANT: Famodu, Omolayo O.
/ TITLE OF INVENTION: STEROID METABOLISM ENZYMS
/ FILE REFERENCE: 101196.132
/ CURRENT APPLICATION NUMBER: US/09/439,554
/ PRIOR FILING DATE: 1999-11-12
/ EARLIER APPLICATION NUMBER: 60/108,351
/ PRIOR FILING DATE: 1998-No. 6479733embet-13
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: Microsoft Office 97
/ SEQ ID NO 24
/ SEQ ID NO 25
/ TYPE: PRT
/ ORGANISM: Glycine max
US-09-439-554-24

Query Match 31-31; Score 515.5; DB 2; Length 292;
Best Local Similarity 39.71; Pred. No. 1.6a-49;
Matches 100; Conservative 43; Mismatches 94; Indels 13; Gaps 4;
```

```
Best Local Similarity 36.21; Pred. No. 5.4e-48;
Matches 110; Conservative 48; Mismatches 109; Indels 37; Gaps 10;
Oy 4 NEWSIFSSASLAVESVDLPLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGL 61
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 21 NHIFTSFSLKEVDITNHS--TYIEKLWASYIYHND-----LATGLLFTITHELM 73
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 62 YPLCLPGLPOTIPMKYKYLQKDPKQKCVLLPHKRCQLRLGCTTYTTEVF-- 115
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 74 YGCLPGLPOTIPMKYKYLQKDPKQKCVLLPHKRCQLRLGCTTYTTEVF-- 133
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 116 TYTTEFNIPYDKNPARYFLARCGAVIEDTHYFLHLHLHKRIYKRYHKVHRE 175
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 134 KSGIT--YGVFF-----PHKIQAGIAIFPCEIDPHYFVHSLPHQGVFNHKKH 186
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 176 FOAPGAEAYNPLETLLGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 223
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 187 YAPGLAEAYNPLETLLGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 245
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 224 TIDVHSGDYLPLNLEIPFYAGSRHNDPHNRHFI--GNYATFTWDRIFGTDGSD 283
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 246 AYDSHSGDYPNHLKTFPLMAGAHDEHNRHVTYKSTASTFTYHDLFGTDGSD 303
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 284 KRKK 287
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 304 KRRE 307
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

```
RESULT 5
US-09-248-796A-17950
/ Sequence 17950, Application US/09248796A
/ Patent No. 6747137
/ GENERAL INFORMATION:
/ APPLICANT: Keith Weinstein et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
/ FILE REFERENCE: 101196.132
/ CURRENT APPLICATION NUMBER: US/09/248,796A
/ PRIOR FILING DATE: 1999-02-13
/ PRIOR APPLICATION NUMBER: US 60/074,725
/ PRIOR FILING DATE: 1998-02-13
/ PRIOR APPLICATION NUMBER: US 60/096,409
/ PRIOR FILING DATE: 1998-08-13
/ NUMBER OF SEQ ID NOS: 28208
/ SEQ ID NO 17950
```

```
Oy 34 KHANYNLTNTYGTATWGLVIVHVALYFLCLPGLPOTIPMKYKYLQKDPKQKCV 93
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 27 ESHGYVLTSHESDQALCGSPFLHGVVFLSGLPFTULERAGMKYKYO--KNTFPA 85
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 94 QKRCFVLLPHHFCIQLPGLCTGCTTYTTEVF-----NIPYDKNPARYFLARCG 149
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 86 QKRCFVLLPHHFCIQLPGLCTGCTTYTTEVF-----NIPYDKNPARYFLARCG 140
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 150 DTHYVFLHLLHKKRIYKRYHKVHREFOAPGAEAYNPLETLLGCTGCTGCTGCT 209
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 141 DTFYGHRIHRLKMLYKHVHREYATPGAEAYNPLETLLGCTGCTGCTGCTGCTG 200
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 210 VILLUWVITLLETIDVHSGDYLPLNLEIPFYAGSRHNDPHNRHFI--GNYATFT 266
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 201 LITLUNLVNLTGVSAGCYWYFWSLHNPFLYCGSDPHNDHNRHVTYKSTAST 260
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 267 WDRIFGTDGSDY 278
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 261 YDRIFGTDGTY 272
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

RESULT 4
US-09-248-796A-17951
/ Sequence 17951, Application US/09248796A
/ Patent No. 6747137
/ GENERAL INFORMATION:
/ APPLICANT: Keith Weinstein et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
/ FILE REFERENCE: 101196.132
/ CURRENT APPLICATION NUMBER: US/09/248,796A
/ PRIOR FILING DATE: 1999-02-12
/ PRIOR APPLICATION NUMBER: US 60/074,725
/ PRIOR FILING DATE: 1998-02-13
/ PRIOR APPLICATION NUMBER: US 60/096,409
/ PRIOR FILING DATE: 1998-08-13
/ NUMBER OF SEQ ID NOS: 28208
/ SOFTWARE: Microsoft Office 97
/ SEQ ID NO 17951
/ SEQ ID NO 17952
/ TYPE: PRT
/ ORGANISM: Candida albicans
US-09-248-796A-17951

Query Match 30-31; Score 502.5; DB 2; Length 322;
```

```
/ LENGTH: 307
/ TYPE: PRT
/ ORGANISM: Candida albicans
US-09-248-796A-17950

Query Match 30-31; Score 499; DB 2; Length 307;
Best Local Similarity 34.11; Pred. No. 1.3e-47;
Matches 109; Conservative 49; Mismatches 94; Indels 68; Gaps 10;
Oy 9 IFSSASLAVESVDLPLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGLPGL 54
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 14 INSSISNRYDYSFELMATTESOVYON--FR-QLDHLAVFE--KINGSYTYTMANDLPATGL 70
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 55 --LVHVALYFLCLPGLPOTIPMKYKYLQKDPKQKCVLLPHHFCIQLP 112
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 71 LFFTHREITFGGLCPANLIDNPPYKNNQGBRIPSDRQGLKSLGVSHVLV---- 126
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 113 ICGTYTTEFNIPYDKNPARYFLARCGAVIEDTHYFLHLHLHKRIYKRYHKVH 152
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 127 -----EAPFIVFPHICOKIGYGVFFKTIQNLQNAVFFVLEDTH 169
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 153 HYFVRLHLLHKKRIYKRYHKVHREFOAPGAEAYNPLETLLGCTGCTGCTGCTG 207
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 170 HYVHGLGVGVVYTHYHRRHVAAPGLAEAYNPLETLLGCTGCTGCTGCTGCTG 228
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 208 -DRVILLWAVYTRILETIDVHSGDYLPLNLEIPFYAGSRHNDPHNRHFI--G 266
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 229 NULHFTYSIILIRFOVANDNSGTFPWSLHNPFLPFGAGAHDEHNRHVTYKST 288
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Oy 267 WDRIFGTDGSDY 278
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db 261 YDRIFGTDGTY 272
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

```
RESULT 6
US-09-439-554-2
/ Sequence 6, Application US/09439554
/ Patent No. 6479733
/ GENERAL INFORMATION:
/ APPLICANT: Refaelski, Jan Antoni
/ APPLICANT: Odell, Joan T.
/ APPLICANT: Sakai, Hajime
/ APPLICANT: Thorpe, Catherine J.
/ APPLICANT: Kinney, Anthony J.
/ APPLICANT: Famodu, Omolayo O.
```

Query Match 17.1k; Score 281.5; DB 2; Length 272;
Best Local Similarity 28.5k; Pred. No. 3.3e-23;
Matches 72; Conservative 34; Mismatches 104; Indels 43; Gaps 7;

Oy 52 WGSIVHEAL-----YFLCLP-----GFLPQIPMKYKLOKDPETWEN 93
Db 24 WHLRSEALLOSFFVFIITTYGCLPPVLDILCSWVALRYKHDPSPSAO 83
Oy 94 OKKCFVLLPHNFCLOPLICGTYTTEVNI PYMER-----NPRVYLLACRCG 145
Db 84 LLPCGLGTLVQHLVFPVTL-LHWVRSFALLP---QEAPELVOLLSRVLCILLPDEI 139
Oy 146 AVIEDTHYVFLHLLHUK--RIYKIHVHIEFOAPGHEAYNPLETLIGTGFFIGI 203
Db 132 LLPLD-MEFFVHLLHUKVLYRTHKHVHNSSSALATOMSVWELSLGTFDMKNV 190
Oy 204 VILCOORVLLMAMVTLLETIDVIGSDYDPLNPLNLIFF--YAGSRHIDPHNFIHNTGY 261
Db 191 TLGCHPITLTTHVHVMVLSVEDSGYDFPASTHRLVFPFGVGVHDLHNSHNCNF 250
Oy 262 ASTFTWDRIQOT 274
Db 251 APYTHDKILQOT 263

RESULT 9
US-09-439-554-22
Sequence 22, Application US/09949016
GENERAL INFORMATION:
TITLE OF INVENTION: POLYMERISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: 06/02414
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/231,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: PatSeq for Windows Version 4.0
SEQ ID NO 967

Query Match 17.1k; Score 281.5; DB 2; Length 272;
Best Local Similarity 28.5k; Pred. No. 3.3e-23;
Matches 72; Conservative 34; Mismatches 104; Indels 43; Gaps 7;

Oy 52 WGSIVHEAL-----YFLCLP-----GFLPQIPMKYKLOKDPETWEN 93
Db 24 WHLRSEALLOSFFVFIITTYGCLPPVLDILCSWVALRYKHDPSPSAO 83
Oy 94 OKKCFVLLPHNFCLOPLICGTYTTEVNI PYMER-----NPRVYLLACRCG 145
Db 84 LLPCGLGTLVQHLVFPVTL-LHWVRSFALLP---QEAPELVOLLSRVLCILLPDEI 139
Oy 146 AVIEDTHYVFLHLLHUK--RIYKIHVHIEFOAPGHEAYNPLETLIGTGFFIGI 203
Db 132 LLPLD-MEFFVHLLHUKVLYRTHKHVHNSSSALATOMSVWELSLGTFDMKNV 190
Oy 204 VILCOORVLLMAMVTLLETIDVIGSDYDPLNPLNLIFF--YAGSRHIDPHNFIHNTGY 261
Db 191 TLGCHPITLTTHVHVMVLSVEDSGYDFPASTHRLVFPFGVGVHDLHNSHNCNF 250
Oy 262 ASTFTWDRIQOT 274
Db 251 APYTHDKILQOT 263

RESULT 9
US-09-439-554-22
Sequence 22, Application US/09949016
GENERAL INFORMATION:
TITLE OF INVENTION: POLYMERISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: 06/02414
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/231,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: PatSeq for Windows Version 4.0
SEQ ID NO 967

Query Match 17.1k; Score 290.5; DB 2; Length 298;
Best Local Similarity 28.5k; Pred. No. 3.6e-24;
Matches 71; Conservative 42; Mismatches 101; Indels 35; Gaps 8;

Oy 52 WGSIVHEAL-----YFLCLP-----GFLPQIPMKYKLOKDPETWEN 93
Db 24 WHLRSEALLOSFFVFIITTYGCLPPVLDILCSWVALRYKHDPSPSAO 83
Oy 94 OKKCFVLLPHNFCLOPLICGTYTTEVNI PYMER-----NPRVYLLACRCG 145
Db 84 LLPCGLGTLVQHLVFPVTL-LHWVRSFALLP---QEAPELVOLLSRVLCILLPDEI 139
Oy 132 --WYTHRLHUK--RIYKIHVHIEFOAPGHEAYNPLETLIGTGFFIGI 207
Db 140 FAKH-----LHUKVPLVTRTHKHVHNSSSALATOMSVWELSLGTFDMKNV 194
Oy 208 DIVILLAMVTLLETIDVIGSDYDPLNPLNLIFF--YAGSRHIDPHNFIHNTGY 265
Db 195 CHPLTIFTRVHIVLSVEDSGYDFPASTHRLVFPFGVGVHDLHNSHNCNF 254
Oy 266 TWDRIQOT 274
Db 255 TWDRIQOT 263

RESULT 8
US-09-177-419C-2
Sequence 2, Application US/09177419C
GENERAL INFORMATION:
TITLE OF INVENTION: POLYMERISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: UTSD1370
CURRENT APPLICATION NUMBER: 05/09177,419C
PRIOR FILING DATE: 1998-10-22
NUMBER OF SEQ ID NOS: 16
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
LENGTH: 272
TYPE: PRT
ORGANISM: human
US-09-177-419C-2

Query Match 17.1k; Score 281.5; DB 2; Length 275;
Best Local Similarity 28.5k; Pred. No. 3.3e-23;
Matches 72; Conservative 34; Mismatches 104; Indels 43; Gaps 7;

Oy 52 WGSIVHEAL-----YFLCLP-----GFLPQIPMKYKLOKDPETWEN 93
Db 27 WHLRSEALLOSFFVFIITTYGCLPPVLDILCSWVALRYKHDPSPSAO 86
Oy 94 OKKCFVLLPHNFCLOPLICGTYTTEVNI PYMER-----NPRVYLLACRCG 145
Db 87 LLPCGLGTLVQHLVFPVTL-LHWVRSFALLP---QEAPELVOLLSRVLCILLPDEI 139
Oy 146 AVIEDTHYVFLHLLHUK--RIYKIHVHIEFOAPGHEAYNPLETLIGTGFFIGI 203
Db 135 LLPLD-MEFFVHLLHUKVLYRTHKHVHNSSSALATOMSVWELSLGTFDMKNV 193
Oy 204 VILCOORVLLMAMVTLLETIDVIGSDYDPLNPLNLIFF--YAGSRHIDPHNFIHNTGY 261
Db 194 TLGCHPITLTTHVHVMVLSVEDSGYDFPASTHRLVFPFGVGVHDLHNSHNCNF 253
Oy 262 ASTFTWDRIQOT 274
Db 254 APYTHDKILQOT 266

RESULT 10
US-09-439-554-22
Sequence 22, Application US/09949016
GENERAL INFORMATION:
TITLE OF INVENTION: POLYMERISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: 06/02414
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/231,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: PatSeq for Windows Version 4.0
SEQ ID NO 967

Query Match 17.1k; Score 281.5; DB 2; Length 272;
Best Local Similarity 28.5k; Pred. No. 3.3e-23;
Matches 72; Conservative 34; Mismatches 104; Indels 43; Gaps 7;

Oy 52 WGSIVHEAL-----YFLCLP-----GFLPQIPMKYKLOKDPETWEN 93
Db 24 WHLRSEALLOSFFVFIITTYGCLPPVLDILCSWVALRYKHDPSPSAO 83
Oy 94 OKKCFVLLPHNFCLOPLICGTYTTEVNI PYMER-----NPRVYLLACRCG 145
Db 84 LLPCGLGTLVQHLVFPVTL-LHWVRSFALLP---QEAPELVOLLSRVLCILLPDEI 139
Oy 146 AVIEDTHYVFLHLLHUK--RIYKIHVHIEFOAPGHEAYNPLETLIGTGFFIGI 203
Db 132 LLPLD-MEFFVHLLHUKVLYRTHKHVHNSSSALATOMSVWELSLGTFDMKNV 190
Oy 204 VILCOORVLLMAMVTLLETIDVIGSDYDPLNPLNLIFF--YAGSRHIDPHNFIHNTGY 261
Db 191 TLGCHPITLTTHVHVMVLSVEDSGYDFPASTHRLVFPFGVGVHDLHNSHNCNF 250
Oy 262 ASTFTWDRIQOT 274
Db 251 APYTHDKILQOT 263

RESULT 9
US-09-439-554-22
Sequence 22, Application US/09949016
GENERAL INFORMATION:
TITLE OF INVENTION: POLYMERISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: 06/02414
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/231,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: PatSeq for Windows Version 4.0
SEQ ID NO 967

EARLIER APPLICATION NUMBER: 60/088,351
/ EARLIER FILING DATE: 1998-06-17
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: Microsoft Office 97
/ SEQ ID NO 22
/ LENGTH: 97
/ TYPE: PRT
/ ORGANISM: *Oryza sativa*
US-09-949-016-6772

Query Match 13.51: Score 223; DB 2: Length 97;
Best Local Similarity 45.21; Pred. No. 3.2e-17;
Matches 42; Conservative 12; Mismatches 33; Indels 6; Gaps 2;
Oy 201 IGVLGKLVLLVWVYFLLRLLHRRVLYKVVHVEFQAPQCKEAYNPFLTLILGTGFFI 258
Db 3 VCPALGPHLLTFLWVRLVETVCAESCTFFPSNFPLYGSGDFDHRVLYTK 62
Oy 259 -GNVASTFWDRIFQDTSOV---NAYNEKKK 287
Db 63 SGNVASTFWDRIFQDTSOVNAYNEKKK 95

RESULT 11
US-09-949-016-6772
Sequence 6772, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: WITH HUMAN GENES ASSOCIATED
/ FILE REFERENCE: C1001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIORITY CLAIMS: CLAIM 1
/ CURRENT APPLICATION NUMBER: 60/237,768
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 6772
/ LENGTH: 299
/ TYPE: PRT

NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 8146
/ LENGTH: 300
/ TYPE: PRT
/ ORGANISM: Human
US-09-949-016-8146

Query Match 12.61: Score 208.5; DB 2: Length 300;
Best Local Similarity 26.51; Pred. No. 6.2e-15;
Matches 70; Conservative 36; Mismatches 109; Indels 49; Gaps 11;
Oy 50 ATW-----GSLVHEA-----LVFLCPLGFLPQIPMKKYLQKDPFTWQ- 94
Db 21 ATPEDDIFRQISLLVTVNGVYLFFCATLSYTFYVDMHAKH-----POPLENOV 74
Oy 95 -----WKCFVLVFNHFCIQPLCGTYTTFYVDMHAKH-----POPLENOV 74
Db 75 REIKFTVQALPW--ISILTVALLLEI-----RQYKJHDDGEPFVCLPVLVS 123
Oy 142 CFCGAVIEDTVYFLLHRRVLYKVVHVEFQAPQCKEAYNPFLTLILGTGFFI 201
Db 124 IISPLFTDMFTVHNGHLVRLVYKVVHVEFQAPQCKEAYNPFLTLILGTGFFI 183
Oy 202 CIVLGDH-VILLWAWYTLLETIDHSGVDIPLWPLIPPTAGSRHHDPHMDWYGYASTFTTW 268
Db 184 YPFTFLKVKVYLSILVWLN--TISINDG-DFRV--POLLOPINGSARHTDHNFTDTH 240
Oy 261 YASTFTWDRIFQDTSOVNAYNEKKK 284
Db 241 YGQYFTLMDRIGSGFKNSPFGK 264

RESULT 13
US-09-248-796A-17952
Sequence 17952, Application US/09248796A
Patent No. 6747137
GENERAL INFORMATION:
/ APPLICANT: Genescreen et al.
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
/ FILE REFERENCE: 107196.132
/ CURRENT APPLICATION NUMBER: US/09/248,796A
/ PRIOR FILING DATE: 1999-02-12
/ PRIOR APPLICATION NUMBER: US 60/074,725

ORGANISM: Human
US-09-949-016-6772
Query Match 12.61: Score 208.5; DB 2: Length 299;
Best Local Similarity 26.51; Pred. No. 6.2e-15;
Matches 70; Conservative 36; Mismatches 109; Indels 49; Gaps 11;
Oy 50 ATW-----GSLVHEA-----LVFLCPLGFLPQIPMKKYLQKDPFTWQ- 94
Db 21 ATPEDDIFRQISLLVTVNGVYLFFCATLSYTFYVDMHAKH-----POPLENOV 73
Oy 95 -----WKCFVLVFNHFCIQPLCGTYTTFYVDMHAKH-----RQYKJHDDGEPFVCLPVLVS 122
Db 75 REIKFTVQALPW--ISILTVALLLEI-----RQYKJHDDGEPFVCLPVLVS 122
Oy 142 CFCGAVIEDTVYFLLHRRVLYKVVHVEFQAPQCKEAYNPFLTLILGTGFFI 201
Db 123 IISPLFTDMFTVHNGHLVRLVYKVVHVEFQAPQCKEAYNPFLTLILGTGFFI 182
Oy 202 CIVLGDH-VILLWAWYTLLETIDHSGVDIPLWPLIPPTAGSRHHDPHMDWYGYASTFTTW 268
Db 183 YPFTFLKVKVYLSILVWLN--TISINDG-DFRV--POLLOPINGSARHTDHNFTDTH 239
Oy 261 YASTFTWDRIFQDTSOVNAYNEKKK 284
Db 240 YGQYFTLMDRIGSGFKNSPFGK 263

RESULT 12
US-09-949-016-8146
Sequence 8146, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: C1001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIORITY CLAIMS: CLAIM 1
/ CURRENT APPLICATION NUMBER: 60/237,768
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08

PRIOR FILING DATE: 1998-02-13
/ PRIOR APPLICATION NUMBER: US 60/096,409
/ PRIOR FILING DATE: 1998-08-13
/ NUMBER OF SEQ ID NOS: 28208
/ SEQ ID NO 17952
/ LENGTH: 105
/ TYPE: PRT
/ ORGANISM: *Candida albicans*
US-09-248-796A-17952

Query Match 11.51: Score 190; DB 2: Length 105;
Best Local Similarity 44.31; Pred. No. 1.8e-13;
Matches 35; Conservative 13; Mismatches 29; Indels 2; Gaps 1;
Oy 209 NVLLWAWYTLLETIDHSGVDIPLWPLIPPTAGSRHHDPHMDWYGYASTFTTW 268
Db 14 HPLTFLVLRPLQVDSISGVDTPMLLNKFFPLWAGAHNDHNYFTGYASTFTTW 73
Oy 269 DRIFTQDSOVNAYNEKKK 287
Db 74 DWLQTECC--GTYAKERE 90

RESULT 14
US-09-443-041A-32
Sequence 32, Application US/09443041A
Patent No. 6465717
GENERAL INFORMATION:
/ APPLICANT: Farnoud, Omelayo O.
/ APPLICANT: Orosco, Buddy
/ APPLICANT: Shalaby, Mohamed
/ APPLICANT: Sheh, Jemini
/ TITLE OF INVENTION: Sterol Metabolism Enzymes
/ FILE REFERENCE:
/ CURRENT APPLICATION NUMBER: US/09/443,041A
/ CURRENT FILING DATE: 1999-11-18
/ PRIOR APPLICATION NUMBER: 60/109,283
/ PRIOR FILING DATE: 1999-11-20
/ NUMBER OF SEQ ID NOS: 31
/ SOFTWARE: Microsoft Office 97
/ SEQ ID NO 32
/ LENGTH: 271
/ TYPE: PRT
/ ORGANISM: *Nicotiana tabacum*
US-09-443-041A-32

Page 1 of 19

SCORE Search Results Details for Application 10753267 and Search Result 20070205_152734_us-10-753-267-20.rpr.

SCORE Search Results Details for Application 10753267 and Search Result 20070205 152734 us-10-753-267-20.rpr.

Page 2 of 19

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARY

Result	No.	Score	Match	Length	ID	Description
	1	548	33.2	300	2	T38986
	2	536.5	32.5	309	2	probable c-4 methy
	3	517	31.4	253	2	EMG23 protein - Ye
	4	395.5	24.0	303	2	probable C-4 stereo
	5	378	22.3	320	2	hypothetical prote
	6	368	22.3	320	2	hypothetical prote
	7	293	17.8	286	2	hypothetical prote
	8	270.5	16.4	293	2	hypothetical integ
	9	262	15.9	300	2	hypothetical prote
	10	254	15.4	349	2	SURF protein - Ye
	11	234	14.2	258	2	F141L1.5 protein -
	12	227.5	13.8	258	2	probable stanol de
	13	204	12.4	274	2	c-5 sterol desatur
	14	187.5	11.5	230	2	hypothetical c-5 s
	15	167.5	10.2	233	2	hypothetical c-5 s
	16	164	9.8	328	2	hypothetical c-5 s
	17	162	9.8	344	2	probable desaturase
	18	157	9.5	281	2	C-5 sterol desatur
	19	157	9.5	300	2	CER1-like protein
	20	145	8.8	300	2	c-5 sterol desatur
	21	140.5	8.5	301	2	hypothetical prote
	22	113.5	6.9	393	2	hypothetical prote
	23	113.5	6.9	393	2	hypothetical prote
	24	108.5	6.6	347	2	hypothetical prote
	25	108	6.5	255	2	hypothetical prote
	26	106	6.4	248	2	hypothetical prote
	27	102.5	6.2	237	2	glyoxyl homolog
	28	101	6.1	555	2	glyoxyl protein gl
	29	97	5.8	319	2	probable fatty aci
	30	96	5.8	347	2	conserved hypochr
	31	92.5	5.7	300	2	Cryptochrome ubiq
	32	92.5	5.7	300	2	Cryptochrome ubiq
	33	94.5	5.7	663	2	bo-type ubiquinol
	34	94.5	5.7	663	2	bo-type ubiquinol
	35	92.5	5.6	485	2	hypothetical prote
	36	92.5	5.6	663	2	cryptochrome ubiq
	37	91.5	5.5	300	2	hypothetical prote

<http://es/ScoreAccessWeb/GetItem.action?AppId=10753267&seqId=105563&itemName=20070205> 152734 us-10-753-267-20.r... 2/8/07

SCORE Search Results Details for Application 107533267 and Search Result 20070205_152734_us-10-753-267-20.rpr.

Page 4 of 19

[illegible]

RESULT 2
564335

ERG25 protein - yeast (*Saccharomyces cerevisiae*)
NAlternate names: protein G4358; protein YGR060W
CSpecies: *Saccharomyces cerevisiae*
CSpeciesTree: [Saccharomyces cerevisiae](#)
GSequence: [S64335](#) frequency_revision 17-May-1996 fstat_change 09-Jul-2004
GAccession: S64335
RRehmikun.L.K.D.; Rose, M.; Koetler, P.; Roemer, A.; Schraam, I.; Hempel, S.
Submitted to the Protein sequence Database, May 1996
AReference number: 564335
AAccession: S64356
APosition: 1-309 <entry>
ACross-references: UNIPROT:P53045; UNIPARC:UPI00001A0AD6; ENMBL:E27845; NID:gl
AExperimental source: strain 528BC
CGenetics:
AGene: SGD:ERG25
XGenes references: SGD:S0003292; MIPS:YGR060W
MIMAP:01078
AGene family: *Saccharomyces cerevisiae* ERG25 protein
CIFunctional: transmembrane protein
CIKeywords: transmembrane protein
CIFunctional domain: transmembrane helix predicted <TM>
Query Match: 32.5% Score 536.5 DB 2 Length 309;
Best Local Similarity 34.5% NCBI 4,2e+02
Matches 12 Conservative 53 Mismatches 95 Indels 65;
Gap

[illegible]

<http://es.ScoreAccessWeb/GetItem.action?Appld=10753267&seqId=105563&itemName=20070205> 152734 us-10-753-267-20.r... 2/8/07

[http://es/ScoreAccessWeb/GellItem.action?AppId=10753267&seqId=105563&ItemName=2\(X\)70205](http://es/ScoreAccessWeb/GellItem.action?AppId=10753267&seqId=105563&ItemName=2(X)70205) 152734 us-10-753-267-20.r... 2/8/07

http://es/ScoreAccessWeb/GetItem.action?AppId=10753267&seqId=1105563&itemName=20070205_152734_us-10-7

2/8/07

[Score Home Page](#) [Retrive Application Link](#) [SCORE System Overview](#) [SCORE FAQ](#) [Comments / Suggestions](#)

GenStore version 8.2
 Copyright (c) 1993 - 2007 Bioacceleration Ltd.
 Run on: February 6, 2007, 05:42:54 ; Search time 42 seconds
 (without alignments)
 671.226 Million call updates/second
 GM protein - protein search, using sw model

Title: US-10-753-267-20
Perfect score: 1649
Sequence: 1 MATNESVSIFSSASLAEVW.....TDSOYNAYNEKRKVEKKTE 293

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

```

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

```

Post-processing: Minimum Match 0%
Maximum Match 100%

Database : PIR_80 :-

[illegible]

Pred. No. is the number of results predicted by chance to have a

http://es/ScoreAccessWeb/GcItem.action?AppId=10753267&seqId=10563&itemName=20070205_152734_us-10-753-267-20.r... 2/8/07

SCORE Search Results Details for Application 10753267 and Search Result 20070205_152734_us-10-753-267-20.rpr.

Page 3 of 19

	38	91	5-5	336	2	T21531
hypothetical prote	38	91	5-5	336	2	T21531
conserved hypothet	39	90.5	5-5	304	2	D02189
hypothetical prote	40	90.5	5-5	304	2	D02189
hypothetical prote	41	89.5	5-4	305	2	T52111
rearranged CCA 9del	42	89.5	5-4	307	2	T17603
probable integral	43	89	5-4	460	2	G57174
hypothetical prote	44	88.5	5-4	322	2	AF2966
hypothetical prote	45	88.5	5-4	791	2	T1455
major facilitator						

ALIGNMENTS

RESULT 1
 T39896
 Properties: c-4 methyl sterol oxidase - fission yeast (*Schizosaccharomyces pombe*)
 C1Name: Schizosaccharomyces pombe
 C1Species: *Schizosaccharomyces pombe*
 C1Date: 01-Dec-1999 revision_01-Dec-1999 test_change 09-Jul-2004
 C1Accession: T39896
 RMC000491, R.C.: Rajandream, M.A.; Barrell, B.G.; Zimmermann, W.; Mambut, R.
 submitted to the EMBL Data Library, August 1999
 A1:Reference number: 221822
 A1:Accession: T39896
 A1:Status: preliminary; Translated from CB/EMBL/DBJ
 A1:Molecule type: DNA
 A1:Residues: 1-300 <CD>
 A1:Cross-references: UNIPROT:P900H4; UNIPAC:UP1000012A0D5; EMBL:AL109832; PDB:
 A2:Experimental source: strain 912h; cosmid c30
 A2:Genetic host: SP08; SPAC630.08c
 A2Map position: 1
 C2:Name: 1
 C2:Description: 3accharomyces cerevisiae ERG25 protein

[illegible]

<http://es/ScoreAccessWeb/GellItem.action?AppId=10753267&seqId=105563&ItemName=20X70205> 152734 us-10-753-267-20.r... 2/8/07

2/8/07

http://es/ScoreAccessWeb/GetItem.action?AppId=10753267&seqId=105563&itemName=20070205 152734 us-10-7

2/8/07

http://score.accesweb.com/CustomAction?AppId=10753767&seqId=1105567&ItemName=20070205_1577701-us-10-753-267-201

Oy		241	1PTFYAGSRRHNDPHNNPFGYASTVTDWDIEPGCTDSOYNANVKKKPKKEKTE	293
D6		241	1PTFYAGSRRHNDPHNNPFGYASTVTDWDRIGTDSOYNANVKKKPKKEKTE	293
RESULT 3				
ACCA				
ID	CIRM04_NACPFA	PRELIMINARY:	PNT:	293 AA.
AC	QIRK04;			
DT	19-JUL-2005,	integrated into UniProtKB/TrEMBL.		
DT	19-JUL-2005,	sequence version 1.		
DE	Brain CDNA, clone: QZRA-1285,	similar to human sterol-C4-methyl		
DE	transferase (EC:2.7.1.2), isoform 1; Steroid C4-methyl-			
DE	Mucosa fascicularis (Crab eating macaque) [Cyromolgus monkey];			
OC	Eukaryota Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Euarchontoglires; Primates; Haplorhini;			
OC	Carnivora; Carnivoramorphans; Scenarcini; Feliformia; Canidae;			
OC	Carnivora; Carnivoramorphans; Scenarcini; Feliformia; Canidae;			
OC	Carnivora; Carnivoramorphans; Scenarcini; Feliformia; Canidae;			
NB	TaxID=9541;			
RN	[1]	NUCLEOTIDE SEQUENCE.		
RV	PubMed=15944141; DOI=10.1093/molbev/kta187.			
RA	Ozada N., Hirata M., Tanuma R., Kasuda J., Hide M., Suzuki Y.,			
RA	Sugano S., Goyshori V., Shen C.-X.J., Wu C.I., Hashimoto K.;			
RT	"Substitution Rate and Structural Divergence of 5'UTR Evolution:			
RT	Comparative Analysis Between Human and Cyromolgus Monkey cDNAs";			
RT	Mol. Biol. Evol. 22:1976-1982(2005).			
RP	NCBI_EPIPAGE ID=9541.			
RG	NUCLEOTIDE SEQUENCE.			
RP	International consortium for macaque cDNA sequencing and analysis;			
RP	"DNA sequences of macaque genes expressed in brain or testis and its			
RT	evolutionary implications."			
RT	submitted (JUN-2005) to the ENBS/GeneBank/DBS databases.			
CC	Commented by: [unreviewed]//			
CC	Submitted by: [unreviewed]//			
CC	Distributed under the Creative Commons Attribution-NoDerivs License			
CC	ENBS: AB169840; BAE01921.1 - mRNA.			
DR	GO: GO:00030324; Fcatalytic activity; IEA.			
DR	GO: GO:0008152; Pimetalabolism; IEA.			
DR	Incrpro: IFRO00087; Sterol_deact.			
DR	Phar: PR01598; Sterol_deact.			
DR	SEQUENCE_293 AA: 3552 MW: 58AF6ZF73C698 CRC54:			

SCORE Search Results Details for Application 10753267 and Search Result 20070205_152726_us-10-753-267-20.rag.

Score Home Page Results Analysis List SCORE System Overview SCORE FAQ Comments Suggestions

This page gives you Search Results details for the Application 10753267 and Search Result 20070205_152726_us-10-753-267-20.rag. (US1) (last:2024)

Go Back to previous page

GenCore version 6.2
Copyright (c) 1993 - 2007 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: February 6, 2007, 05:38:04 : Search time 215 Seconds
(Without Alignments)
666.655 Million cell updates/sec

Title: US-10-753-267-20

File: 152726

Sequences: 1 MATNESV1FSASLAVYDVSLLPENLOEPFKNMNMNTYKQATWGLVLEDA 60

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2782304 seqs, 489333398 residues

Total number of hits satisfying chosen parameters: 2782304

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100

Listing first 45 summaries

Database : A.Geneseq_200701:
1: geneseq1980s:
2: geneseq1990s:
3: geneseq2000s:
4: geneseq2001s:
5: geneseq2002s:

30	517	31.4	252	3	AGAG1385
31	517	31.4	252	3	ADU62710 Arabidops
32	517	31.4	252	3	ADU62710 Arabidops
33	515.5	31.3	253	3	AGAG1384
34	515.5	31.3	271	8	ADU20527 A. thalis
35	515.5	31.3	292	6	ADU07832 Soybean C
36	513	31.1	261	10	ACL39663
37	513	31.1	265	10	ACL39662 Corn ster
38	513	31.1	264	8	ACL39661
39	506.5	30.7	266	3	AGAG16769
40	503.5	30.5	246	10	AGG3503 Maize str
41	503.5	30.5	321	5	ABP73495
42	502.5	30.5	286	7	ADU70036 C. neofo
43	495.5	30.0	261	6	ADU20523 A. thalis
44	482.5	29.3	259	8	ADU56668
45	472.5	28.7	248	8	ADU42859 Rice loop

ALIGNMENTS

RESULT 1
ADU08258 standard; protein: 293 AA.
XX
AC ADU08258:
DT 14-MAY-2003 (first entry)
XX

DE Human C-4 sterol methyltransferase.
XX
NM Human; enzyme: 3beta-hydroxysteroid dehydrogenase; 3beta-HSD; NSDHL;
NM cholesterol biosynthesis; mevalonic aciduria; desmosterolosis;
NM Smith-Lemli-Opitz syndrome; SLOS; Conradi-Hunermann-Happle syndrome;
NM chondrodysplasia punctata; X-linked disease; prokiasis; CHILD syndrome;
NM bone disorder; osteoporosis; osteoclerosis; congenital hemiplegia;
NM ichthyosiform erythroderma and limb defect; ichthyosis; eye disorder;
NM catract; microphthalmia; arthrits; cholest-4(9)-en-3beta-ol;
XX
OS Homo sapiens.
XX
PH US2002172956-A1.
XX
PD 21-NOV-2002.

6: geneseq2003as:
7: geneseq2003bs:
8: geneseq2004s:
9: geneseq2005s:
10: geneseq2006s:
11: geneseq2007s:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result	Score	Length	DB	ID	Description
1	1649	100.0	293	6	ADU08258 Human C-4
2	1649	100.0	293	7	ADU08258 Human C-4
3	1649	100.0	293	7	ADU08258 Human C-4
4	1649	100.0	293	8	ADU08258 Human C-4
5	1649	100.0	293	8	ADU08258 Human C-4
6	1649	100.0	293	8	ADU08258 Human C-4
7	1649	100.0	293	8	ADU08258 Human C-4
8	1649	100.0	293	8	ADU08258 Human C-4
9	1649	100.0	293	8	ADU08258 Human C-4
10	1649	100.0	293	8	ADU08258 Human C-4
11	1649	100.0	293	8	ADU08258 Human C-4
12	1477	89.6	293	9	ADU14481 Rat Prote
13	1477	89.6	293	9	ADU14481 Rat Prote
14	1477	89.6	293	9	ADU14481 Rat Prote
15	918	55.7	162	8	ADU45400 Human col
16	627	38.0	115	3	AGAG1157 Human sec
17	542.5	32.9	291	8	ADU05295
18	541	32.8	291	6	ADU07830 Corn C-4
19	541	32.8	304	10	ADU561859
20	541	32.8	318	8	ADU74470
21	541	32.8	318	8	ADU74470
22	541	32.8	348	10	AGG3503 Maize str
23	541	32.8	348	10	AGG3503 Maize str
24	539.5	32.7	264	10	AGG3503 Maize str
25	536.5	32.5	309	10	AGG351820
26	530	32.1	299	10	AGH46186
27	529.5	32.1	327	6	ADU26253
28	528	32.0	266	6	ADU20523
29	525.5	31.9	304	10	ADU08257

XX 05-SEP-2001; 2001US-0094606.
XX
XX 01-JUN-1999; 99US-0137020P.
XX 01-JUN-2000; 2000US-00588976.
XX (CHIL-) CHILDRENS HOSPITAL INC.
XX
XX Herman GE, Kelley RI, Grange DK;
XX
XX WPI: 2003-10384/30.
XX N-PSDB; ABM13303.
XX
XX Diagnosing CHILD syndrome or prokiasis, by detecting differences between patient and wild type genes encoding 3 beta-hydroxysteroid dehydrogenase or accumulation of sterol intermediates in body fluids of the patient.
XX
XX Disclosure: Page 13-14; 23pp: English.

XX The invention relates to diagnosing congenital hemiplegia, ichthyosiform erythroderma and limb defects (CHILD) syndrome or prokiasis in a patient. Involves detecting nucleotide difference between patient and wild type genes encoding 3 beta-hydroxysteroid dehydrogenase (3HSD) or accumulation of sterol intermediates in body fluids of the patient. Involves detecting nucleotide difference between patient and wild type genes encoding 3 beta-hydroxysteroid dehydrogenase or accumulation of sterol intermediates before the generation of cholest-4(9)-en-3beta-ol in the cholesterol biosynthetic pathway, in the body fluids or cells of the patient. The method is useful for diagnosing CHILD syndrome and prokiasis in a patient. Other diseases implicated in defects of the cholesteryl CC biosynthetic pathway include mevalonic aciduria, desmosterolosis, Smith-Lemli-Opitz syndrome (SLOS), Conradi-Hunermann-Happle syndrome, chondrodysplasia punctata, X-linked disease, prokiasis; CHILD syndrome, osteoclerosis, osteoporosis, ichthyosis, eye disorders, (e.g. cataract, microphthalmia), skin disorders, ichthyosis, eye disorders, (e.g. cataract, microphthalmia) and arthritis. The human NSDHL gene is located on CC chromosome X128. The present sequence represents human C-4 sterol CC methyltransferase, the enzyme acting in the previous step of the cholesterol CC biosynthetic pathway to NSDHL

30 Sequence 293 AA:

Query Match 100.01; Score 1649; DB 6; Length 293;
Best Local Similarity 100.01; Pred. No. 3.4e-170;
Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
2y 1 MATNESV1FSASLAVYDVSLLPENLOEPFKNMNMNTYKQATWGLVLEDA 60
|||||

Db	1	MATHESV31FSBALAVYDLSLPFLPDPFFKNNYLNWTKYQIATGSLVIEA	60
Qy	61	LYFLCLPGLPDTIPYHKYKIQNDKPNENQWCFKVLPHNFCIQPLGCTYTF	120
Db	61	LYFLCLPGLPDTIPYHKYKIQNDKPNENQWCFKVLPHNFCIQPLGCTYTF	120
Qy	121	EYFNIPYDNEPRNYVLLANCFCAVIEDTPYFHLRLHHRKYIKYIKVHVEFOAPF	180
Db	121	EYFNIPYDNEPRNYVLLANCFCAVIEDTPYFHLRLHHRKYIKYIKVHVEFOAPF	180
Qy	181	CHDAEYAPLETLLGCTGFFGIVLLCDVILLWAMVTIRLLETIDWHSQYDIPFLNLI	240
Db	181	CHDAEYAPLETLLGCTGFFGIVLLCDVILLWAMVTIRLLETIDWHSQYDIPFLNLI	240
Qy	241	IPFYAGSHNDPHNNFIGNVASTFTWDRIPTDSDYWAYNKKKKFEKTE	293
Db	241	IPFYAGSHNDPHNNFIGNVASTFTWDRIPTDSDYWAYNKKKKFEKTE	293
RESULT 2			
Db	AD831647	standard; protein: 293 AA.	
AC	AD831647		
DT	29-JAN-2004	(first entry)	
DE	Human Protein Q15800	550 ID NO 2382.	
FW	Human; pain; neuronal tissue; gene therapy;		
KW	spinal segmental nerve injury; chronic constriction injury; CCI;		
OS	spared nerve injury; SN; Chung.		
XX	Homo sapiens.		
XX	W02003016975-A2.		
XX	27-FEB-2003.		
XX	14-AUG-2002.	2002W0-US025765.	
XX	14-AUG-2001.	2001US-0312147P.	
XX	01-NOV-2001.	2001US-0346382P.	
XX	26-NOV-2001.	2001US-0333347P.	

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105561&ItemName=20070205_152726_us-10-753-267-20.r... 2/8/07

Matches	293;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	1	MATHESV1FSBALAVYDLSLPFLPDPFFKNNYLNWTKYQIATGSLVIEA	60						
Db	1	MATHESV1FSBALAVYDLSLPFLPDPFFKNNYLNWTKYQIATGSLVIEA	60						
Qy	61	LYFLCLPGLPDTIPYHKYKIQNDKPNENQWCFKVLPHNFCIQPLGCTYTF	120						
Db	61	LYFLCLPGLPDTIPYHKYKIQNDKPNENQWCFKVLPHNFCIQPLGCTYTF	120						
Qy	121	EYFNIPYDNEPRNYVLLANCFCAVIEDTPYFHLRLHHRKYIKYIKVHVEFOAPF	180						
Db	121	EYFNIPYDNEPRNYVLLANCFCAVIEDTPYFHLRLHHRKYIKYIKVHVEFOAPF	180						
Qy	181	CHDAEYAPLETLLGCTGFFGIVLLCDVILLWAMVTIRLLETIDWHSQYDIPFLNLI	240						
Db	181	CHDAEYAPLETLLGCTGFFGIVLLCDVILLWAMVTIRLLETIDWHSQYDIPFLNLI	240						
Qy	241	IPFYAGSHNDPHNNFIGNVASTFTWDRIPTDSDYWAYNKKKKFEKTE	293						
Db	241	IPFYAGSHNDPHNNFIGNVASTFTWDRIPTDSDYWAYNKKKKFEKTE	293						

RESULT 3			
Db	AD831647	standard; protein: 293 AA.	
AC	AD831647		
DT	29-JAN-2004	(first entry)	
DE	Human 6169 protein	450 ID 4.	
FW	Antitachycardic; cardiac; vasoregic; antiinflammatory;		
KW	thrombolytic; antiarrhythmic; antianginal; hypotensive; gene therapy;		
KW	cardiovascular disorder; ischaemia; aortic bending;		
KW	vascular heart disease; endocarditis; atrial fibrillation; heart failure;		
XX	anular; cardiomyopathy; cardiac death.		
OS	Homo sapiens.		
XX	W02003065984-A2.		
XX	14-AUG-2003.		

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105561&ItemName=20070205_152726_us-10-753-267-20.r... 2/8/07

PA	(GENO) GEN HOSPITAL CORP.	
PI	(FMR) BAYER AG.	
PI	Woolf C, D'urao D, Befort X, Coatigan M;	
DR	WPI: 2003-268312/26.	
XX	GENBANK: Q15800.	
PT	New composition comprising two or more isolated polypeptides, useful for	
PT	preparing a medicament for treating pain in an animal.	
XX	Claim 1: page: 101pp; English.	
XX	The invention discloses a composition comprising two or more isolated rat	
CC	CC polynucleotides or polypeptides which represent a fragment,	
CC	CC derivative or allelic variation of the nucleotide sequence claimed,	
CC	CC claimed are a vector comprising the novel polynucleotide, a host cell	
CC	CC comprising the vector, a method for identifying a nucleotide sequence	
CC	CC which is differentially regulated in an animal subjected to pain and a	
CC	CC kit to perform the method, an array, a method for identifying an agent	
CC	CC that increases or decreases the expression of the polynucleotide sequence	
CC	CC that is differentially expressed in neuronal tissue of a first animal	
CC	CC that is differentially expressed in neuronal tissue of a second animal	
CC	CC the expression of a polynucleotide sequence which is differentially	
CC	CC expressed in an animal subjected to pain, a method for identifying a	
CC	CC compound that regulates the activity of one or more of the	
CC	CC polynucleotides, a method for producing a pharmaceutical composition, a	
CC	CC method for identifying a compound or small molecule that regulates the	
CC	CC activity in an animal of one or more of the polypeptides given in the	
CC	CC claims, a method for identifying a compound useful in treating	
CC	CC pain and a pharmaceutical composition comprising the compound and	
CC	CC polypeptides or their antibodies. The polynucleotide or the compound that	
CC	CC modulates its activity is useful for preparing a medicament for treating	
CC	CC pain (e.g. spinal segmental nerve injury (SN)) in an animal (e.g. gene	
CC	CC injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene	
CC	CC therapy). The sequence presented is a human protein (shown in Table 2 of	
CC	CC the specification) which is differentially expressed during pain. Note:	
CC	CC This sequence is a human protein (shown in Table 2 of the specification)	
CC	CC specification, but was obtained in electronic form directly from Wipo at	
CC	CC ftp.wipo.int/pub/published_pct_sequences.	
XX	Sequence 293 AA:	
XX	Query Match 100.0% Score 1649; DB 7; Length 293;	
XX	Best Local Similarity 100.0% Page. No. 3,4e-170;	

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105561&ItemName=20070205_152726_us-10-753-267-20.r... 2/8/07

XX	29-JAN-2003;	2003W0-US002571.	
XX	01-FEB-2002;	2002US-0353224P.	
PR	15-MAR-2002;	2002US-0364529P.	
PR	19-APR-2002;	2002US-0373861P.	
PR	29-APR-2002;	2002US-0376287P.	
PR	12-JUN-2002;	2002US-0386060P.	
PR	14-JUN-2002;	2002US-0386060P.	
PR	03-JUL-2002;	2002US-0394110P.	
PR	10-JUL-2002;	2002US-0394757P.	
PR	21-AUG-2002;	2002US-0404904P.	
PR	23-AUG-2002;	2002US-0405450P.	
PR	06-NOV-2002;	2002US-0424300P.	
PR	05-DEC-2002;	2002US-0431042P.	
XX	05-DEC-2002;	2002US-0431039P.	
PA	(MILL-) MILLENNIUM PHARM INC.		
XX	Logan TJ, Chun M, Galvin KM, Healy A, Acton SL, Donagheue M;		
PI	Stagliano W, Perodin J, Rodrigue-Way A;		
XX	WPI: 2003-731468/69.		
DB	H-PSDB: AD831646.		
XX	Identifying a compound capable of treating a cardiovascular disorder		
PT	(e.g. atherosclerosis) comprises assaying the ability of the compound to		
PT	modulate the expression or activity of e.g. 1682, 6169 or 6193		
PT	polypeptide or nucleic acid.		
XX	Disclosure: SEQ ID NO 4; 328pp; English.		
XX	The invention relates to a method for identifying a compound capable of		
CC	CC treating a cardiovascular disorder. The present invention identifies the		
CC	CC differential expression of 1682, 6169, 6193, 7771, 14395, 29002, 33216,		
CC	CC 43226, 69292, 21656, 32427, 2402, 7747, 1720, 9351, 60494, 1371, 7077,		
CC	CC 2420, 41903, 6103, 8650, 14245, 58446, 1870, 25836, 32394, 3484,		
CC	CC 348, 925, 9135, 6137, 6169, 6193, 7771, 14395, 29002, 33216,		
CC	CC 2868, 283, 2554, 9464, 17799, 26686, 43848, 33135, 12208, 2914, 51130,		
CC	CC 19489, 21833, 2917, 59590, 15992, 2094, 2252, 3474, 9792, 15400, 1452 or		
CC	CC 5595 genes in cardiovascular disease states. The methods are useful in		
CC	CC diagnosing, preventing and treating cardiovascular disorders, such as		
CC	CC atherosclerosis, cardiac hypertrophy, ischaemia, reperfusion injury,		
CC	CC stenosis, arterial inflammation, vascular wall remodeling, coronary		
CC	CC microembolism, tachycardia, bradycardia, pressure overload, aortic		

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105561&ItemName=20070205_152726_us-10-753-267-20.r... 2/8/07


```
Oy 121 EYFNIPDYMERVYFLARCGCAVEDTHYFHLRLHKRIKYIKYHVEFOAPF 180
    |||||||
Db 121 EYFNIPDYMERVYFLARCGCAVEDTHYFHLRLHKRIKYIKYHVEFOAPF 180
Oy 181 GHEAYNPLETLILGTFPGFVILGCDRVILLWAMVYTLLETTIDVNSGTDIFLWFLML 240
    |||||||
Db 181 GHEAYNPLETLILGTFPGFVILGCDRVILLWAMVYTLLETTIDVNSGTDIFLWFLML 240
Oy 241 IFFYAGSRHIDFHNFNIGNYASTFTFWDRIFGDSYWAYNEKKRKEKTE 293
    |||||||
Db 241 IFFYAGSRHIDFHNFNIGNYASTFTFWDRIFGDSYWAYNEKKRKEKTE 293

RESULT 6
AD019683
ID AD019683 standard; protein; 293 AA.
AC
XX AD019683;
XX 12-AUG-2004 (first entry)
XX
XX Human PRO; immune related disorder; systemic lupus erythematosus;
XX rheumatoid arthritis; osteoarthritis; juvenile chronic arthritis;
XX systemic sclerosis; Sjogren's syndrome; vasculitis; sarcoidosis;
XX autoimmune haemolytic anaemia; autoimmune thrombocytopenia; thyroiditis;
XX diabetes mellitus; renal disease; demyelinating disease;
XX demyelinating polyneuropathy; Guillain-Barre syndrome;
XX chronic inflammatory demyelinating polyneuropathy.
XX
XX Homo sapiens.
XX
XX WO2004043361-A2.
XX
XX 27-MAY-2004.
XX
XX 06-NOV-2003; 2003WO-US035268.
XX
XX 08-NOV-2003; 2002US-0425235P.
XX
XX (GETH) GEMTECH INC.
XX
```

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105561&ItemName=20070205_152726_us-10-753-267-20.r... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070205_152726_us-10-753-267-20.mg. Page 15 of 23

```
Db 181 GHEAYNPLETLILGTFPGFVILGCDRVILLWAMVYTLLETTIDVNSGTDIFLWFLML 240
    |||||||
Oy 241 IFFYAGSRHIDFHNFNIGNYASTFTFWDRIFGDSYWAYNEKKRKEKTE 293
    |||||||
Db 241 IFFYAGSRHIDFHNFNIGNYASTFTFWDRIFGDSYWAYNEKKRKEKTE 293

RESULT 7
AD088178
ID AD088178 standard; protein; 293 AA.
AC
XX AD088178;
XX 21-OCT-2004 (first entry)
XX
XX Human 6169 protein, an BR25 protein.
XX
XX human; cardiovascular disorder; thrombotic disorder;
XX differential expression; gene therapy; aberrant vasculization;
XX atherosclerosis; thrombosis; coronary artery disease; hyperlipidemia;
XX dyslipidemia; high blood pressure; heart failure; cardiast;
XX thrombolytic; anticoagulant; antilipemic; hypotensive; cardiast; BR25.
XX
XX Homo sapiens.
XX
XX WO2004063340-A2.
XX
XX 29-JUL-2004.
XX
XX 13-JAN-2004; 2004WO-US0000393.
XX
XX 05-FEB-2003; 2003US-043683P.
XX
XX 18-FEB-2003; 2003US-0448036P.
XX
XX 12-MAR-2003; 2003US-045189P.
XX
XX 23-MAR-2003; 2003US-045341P.
XX
XX 08-MAY-2003; 2003US-0469041P.
XX
XX 10-JUN-2003; 2003US-047714P.
XX
XX 13-JUN-2003; 2003US-0478560P.
XX
XX 24-JUL-2003; 2003US-0489772P.
XX
XX 28-JUL-2003; 2003US-0490660P.
XX
XX 03-SEP-2003; 2003US-0494938P.
XX
XX 22-SEP-2003; 2003US-0504780P.
```

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105561&ItemName=20070205_152726_us-10-753-267-20.r... 28/07

```
PI Fong S, Dennis K, Clark H, Chiu H, Schoenfeld J, Williams PM;
XX Wood WT, Wu TD;
XX
XX WPI: 2004-420067/39..
XX N-PSDB: AD015682.
XX
XX Novel PRO polypeptide e.g., PRO69614, PRO71106, or PRO69688 useful for
XX treating immune related disorder such as systemic lupus erythematosus,
XX rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis or
XX spondyloarthritis.
XX
XX Claim 7: SEQ ID NO 610: 1731pp; English.
XX
XX The invention relates to human PRO polypeptides and the polynucleotides
XX encoding them. The polypeptides and polynucleotides are useful for
XX treating and diagnosing immune related disorders. The immune
XX related disorders include systemic lupus erythematosus, rheumatoid
XX arthritis, osteoarthritis, juvenile chronic arthritis, systemic
XX sclerosis, Sjogren's syndrome, autoimmune thrombocytopenia, diabetes
XX mellitus, immune-mediated renal disease, demyelinating diseases of the
XX central or peripheral nervous system, demyelinating polyneuropathy,
XX chronic inflammatory demyelinating polyneuropathy, and
XX polyneuropathy. This sequence represents a human PRO polypeptide of the
XX invention.
XX
XX Sequence 293 AA;
XX
XX Query Match 100.0%; Score 1649; DB 8; Length 293;
XX Best Local Similarity 100.0%; Pred. No. 3-4e-170;
XX Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 MATNESVIFSSASLAVYDSSLPENLQEPFKWANNVLYNNTFYQTATGSLIVHEA 60
    |||||||
Db 1 MATNESVIFSSASLAVYDSSLPENLQEPFKWANNVLYNNTFYQTATGSLIVHEA 60
Oy 61 LYFLCLPGLPTFPTPKKKYKIOKPKPTWENQKCFVLLFNHFCLOPLIGCTYTF 120
    |||||||
Db 61 LYFLCLPGLPTFPTPKKKYKIOKPKPTWENQKCFVLLFNHFCLOPLIGCTYTF 120
Oy 121 EYFNIPDYMERVYFLARCGCAVEDTHYFHLRLHKRIKYIKYHVEFOAPF 180
    |||||||
Db 121 EYFNIPDYMERVYFLARCGCAVEDTHYFHLRLHKRIKYIKYHVEFOAPF 180
Oy 181 GHEAYNPLETLILGTFPGFVILGCDRVILLWAMVYTLLETTIDVNSGTDIFLWFLML 240
    |||||||
```

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105561&ItemName=20070205_152726_us-10-753-267-20.r... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070205_152726_us-10-753-267-20.mg. Page 16 of 23

```
PI 24-SEP-2003; 2003US-0505570P.
XX 17-OCT-2003; 2003US-0512418P.
XX 21-OCT-2003; 2003US-0514660P.
XX
XX (MILL-) MILLENNIUM PHARM INC.
XX
XX Stagliano NE, Healy A, Acton SL, Galvin DM, Donoghue MA;
XX Rogliano-Way A, Tomlinson JE;
XX WPI: 2004-553729/53.
XX N-PSDB: ADQ88177.
XX
XX Identifying a compound for treating a cardiovascular or thrombotic
XX disorder by combining a compound to be tested with e.g., a 9380, 9462,
XX 9701 or 2419 polypeptide or with a host cell expressing the polypeptide
XX and detecting the binding.
XX
XX Claim 1: SEQ ID NO 20: 512pp; English.
XX
XX This invention relates to a novel compound that is capable of treating a
XX cardiovascular or thrombotic disorder. Specifically, it refers to the
XX identification of nucleic acid molecules, and the encoded proteins
XX thereof, which are differentially expressed in cardiovascular disease
XX states. The invention describes test compounds (i.e. small molecules,
XX peptides or antibodies) that can bind to and modulate the activity of
XX these differentially expressed membrane-bound polypeptides, where binding
XX is detected by a competition binding assay. Immunoassay or yeast two-
XX hybrid assay. Accordingly, pharmaceutical compositions can be developed
XX and used via gene therapy to treat aberrant vasculization, hyperlipidemia,
XX dyslipidemia, high blood pressure or heart failure. As such, they
XX exhibit cardiant, thrombolytic, anticoagulant, antilipemic, hypotensive
XX CC and cardiant activities. This polypeptide sequence is a human protein
XX CC that is differentially expressed in a patient with a cardiovascular
XX CC disorder, given in an exemplification of the invention.
XX
XX Sequence 293 AA;
XX
XX Query Match 100.0%; Score 1649; DB 8; Length 293;
XX Best Local Similarity 100.0%; Pred. No. 3-4e-170;
XX Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 MATNESVIFSSASLAVYDSSLPENLQEPFKWANNVLYNNTFYQTATGSLIVHEA 60
    |||||||
```

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105561&ItemName=20070205_152726_us-10-753-267-20.r... 28/07

OY 61 LYLFLCGLFQIPYNNKYIKQKPEKEMQKCFVLLRNFCIQPLICGTYTFF 120
DB 61 LYLFLCGLFQIPYNNKYIKQKPEKEMQKCFVLLRNFCIQPLICGTYTFF 120
OY 121 EYFNIPYDZEMPRVYLLACFCGCAVIEDYRYFLHLLHKKRYKXIKYHVEPQAF 180
DB 121 EYFNIPYDZEMPRVYLLACFCGCAVIEDYRYFLHLLHKKRYKXIKYHVEPQAF 180
OY 181 GMEAYANPLETLLTGTFPIGVLLCDRYVLLWAVYTRLETDVHSGYDIFLNPJL 240
DB 181 GMEAYANPLETLLTGTFPIGVLLCDRYVLLWAVYTRLETDVHSGYDIFLNPJL 240
OY 241 IFTAGSHHNDPHNNYIGNVASTFTWDRIFGDSQYVAYNKKRYEKKTE 293
DB 241 IFTAGSHHNDPHNNYIGNVASTFTWDRIFGDSQYVAYNKKRYEKKTE 293
RESULT 10
ADP24211
ID ADP24211 standard: protein: 293 AA.
AC ADP24211:
XX 18-NOV-2004 (first entry)
DT PRO polypeptide SEQ ID NO:1389.
DE PRO: antiinflammatory; antiarthritic; antirheumatic; immunosuppressive;
RW osteoporosis; antidiabetic; antineoplastic; antiparasitic; antitubercu-
RW antiasthmatic; hepatotropic; respiratory; gene therapy; immune system.
XX Unidentified.
O3
XX W02004041170-A2.
PR 21-MAY-2004.
XX 30-OCT-2003; 2003NO-U0304312.
PR 01-NOV-2002; 2002US-0423394F.
XX (GETH) GEMTECH INC.
PA Clark N. Schoenfeld J. Van Lookeren M. Williams PM. Wood WJ.
P1

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105561&ItemName=20070205_152726_us-10-753-267-20.r... 28/07

OY 1 MATHESV1IPSSASLAVESVDLLPENPQEPFNANNPLNNYTFQIATWGLIVHEA 60
DB 1 MATHESV1IPSSASLAVESVDLLPENPQEPFNANNPLNNYTFQIATWGLIVHEA 60
OY 61 LYLFLCGLFQIPYNNKYIKQKPEKEMQKCFVLLRNFCIQPLICGTYTFF 120
DB 61 LYLFLCGLFQIPYNNKYIKQKPEKEMQKCFVLLRNFCIQPLICGTYTFF 120
OY 121 EYFNIPYDZEMPRVYLLACFCGCAVIEDYRYFLHLLHKKRYKXIKYHVEPQAF 180
DB 121 EYFNIPYDZEMPRVYLLACFCGCAVIEDYRYFLHLLHKKRYKXIKYHVEPQAF 180
OY 181 GMEAYANPLETLLTGTFPIGVLLCDRYVLLWAVYTRLETDVHSGYDIFLNPJL 240
DB 181 GMEAYANPLETLLTGTFPIGVLLCDRYVLLWAVYTRLETDVHSGYDIFLNPJL 240
OY 241 IFTAGSHHNDPHNNYIGNVASTFTWDRIFGDSQYVAYNKKRYEKKTE 293
DB 241 IFTAGSHHNDPHNNYIGNVASTFTWDRIFGDSQYVAYNKKRYEKKTE 293

CELL JAK1 2004

SCORE 1.2. BuildDate: 12/12/2006

P1
XX WD: 100.01; Score 1649; DB 8; Length 293;
XX WPI: 2004-415628/39.
DR N-PSDB; ADP24210.
XX
XX New PRO polypeptides and polynucleotides, useful for treating e.g.
PT rheumatoid arthritis, diabetes mellitus, immune-mediated
PT renal disease, or demyelinating diseases of the central or peripheral
PT nervous system.
XX
XX Claim 7; SEQ ID NO 1389; 294Opp: English.
XX
XX The invention relates to a novel isolated nucleic acid and the PRO
XX polypeptide encoded by it. A protein of the invention has
XX antinflammatory, antirheumatic, antineoplastic, antiparasitic,
XX antidiabetic, antitubercular, antitubercular, antitubercular, antitubercular,
XX antitubercular, hepatotropic, and respiratory activity. A polynucleotide
XX of the invention may have a use in gene therapy. The PRO polypeptide, its
XX agonist, antagonist, or antibody that specifically binds to the
XX polypeptide is useful for treating an immune related disorder such as
XX systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
XX idiopathic chronic arthritis, spondyloarthritis, systemic sclerosis, an
XX idiopathic chronic arthritis, spondyloarthritis, systemic sclerosis, an
XX vasculitis, sarcoidosis, autoimmune hemolytic anaemia, autoimmune
XX thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated renal
XX disease, a demyelinating disease of the central or peripheral nervous
XX system, idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome,
XX a chronic inflammatory demyelinating polyneuropathy, a hepatobiliary
XX disease, infectious or autoimmune chronic active hepatitis, primary
XX biliary cirrhosis, autoimmune hepatitis, sclerosing cholangitis,
XX inflammatory bowel disease, glucocorticoid resistance, a myopathy,
XX disease, an autoimmune or immune-mediated skin disease, a bullous skin
XX disease, erythema multiforme, contact dermatitis, psoriasis, an allergic
XX disease, asthma, allergic rhinitis, atopic dermatitis; food
XX hypersensitivity, urticaria, an immunologic disease of the lung,
XX eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity
XX pneumonitis, a transplantation associated disease, graft rejection or
XX rejection of a transplanted organ. The present sequence represents a PRO protein
XX of the invention.
XX
XX Sequence 293 AA:
Query Match 100.01; Score 1649; DB 8; Length 293;
Best Local Similarity 100.01; Pred. No. 3.4e-170; Indels 0; Gaps 0;
Matches 293; Conservative 0; Mismatches 0;
XX

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1105561&ItemName=20070205_152726_us-10-753-267-20.r... 28/07

Db 1261 ATCTAGGCTCTTCTGCGATTAACGATAGGCTGCAAGTTCAGATTCGCTTTAAATC 1320
Oy 1321 TTTTGAATATAGTGGTATTCAGAAATATTCATAGTGGTATGGCTTATATTA 1380
Db 1321 TTTTGAATATAGTGGTATTCAGAAATATTCATAGTGGTATGGCTTATATTA 1380
Oy 1381 ACTTTTATATATTTTATTTTGAAGCAAGCAACATCTCTCTGCTGGAGATG 1440
Db 1381 ACTTTTATATATTTTATTTTGAAGCAAGCA--CACTCTCTCTCTGCTGGAGATG 1438
Oy 1441 TGTGGCAAGTCTCAAGCTCACTOC 1465
Db 1439 TGTGGCAAGTCTCAAGCTCACTOC 1463

RESULT 3
US-10-533-519-1388
: Sequence 1388, Application US/10533519
: Publication No. US2006026377A1
: GENERAL INFORMATION:
: APPLICANT: CLARK, RILEY
: INVENTOR: CLARK, RILEY
: APPLICANT: VANJOEREN, ARNO
: APPLICANT: WILLIAMS, P. MICKEY
: APPLICANT: WOOD, WILLIAM J.
: APPLICANT: WU, THOMAS D.
: TITLE OF INVENTION: COMPOSITIONS AND METHODS OF THE TREATMENT OF INJURY
: TITLE OF INVENTION: RELATED DISEASES
: FILE REFERENCE: P194H1 US
: CURRENT FILING DATE: 2005-04-28 US/10/533,519
: PRIOR FILING DATE: 2005-04-28 PCT/US03/34312
: PRIOR FILING DATE: 2003-10-30
: PRIOR FILING DATE: 2003-10-30
: PRIOR FILING DATE: 2002-11-01
: NUMBER OF SEQ ID NOS: 2517
: SEQ ID NO 1: 1388
: LENGTH: 1344
: TYPE: DNA
: ORGANISM: Homo sapien
US-10-533-519-1388

Query Match 94.4%; Score 1383.4; DB 6; Length 1344;
Best Local Similarity 99.6%; Pred. No. 6, 1e-232;

http://es.ScoreAccessWeb/Celitem.action?AppId=10753267&seqId=1089420&ItemName=20070202_145122_us-10-753-267-19.r... 28/07

Oy 727 GTTGGGATGGGATGATGCTGTTATGAAATATGATGCGATGCGATGATGAT 786
Db 661 GTTGGGATGGGATGATGCTGTTATGAAATATGATGCGATGCGATGATGAT 720
Oy 787 ATTCTCTCAAGCTTTAAATGATGCTGCTTATGCTGGTCTGGCATCATGATTC 846
Db 721 ATTCTCTCAAGCTTTAAATGATGCTGCTTATGCTGGTCTGGCATCATGATTC 780
Oy 847 CACCATATGACTTATGGAAGTATGCTGCAAGTATGATGATGCGATGATTTT 906
Db 781 CACCATATGACTTATGGAAGTATGCTGCAAGTATGATGATGCGATGATTTT 840
Oy 907 GGAAGAGCTCTGATATATGCTATATGAAAGAGGAGAGTGTGAGAAAAAGCT 966
Db 841 GGAAGAGCTCTGATATATGCTATATGAAAGAGGAGAGTGTGAGAAAAAGCT 900
Oy 967 GAATATATCTGAGTTAACTCTGATGATGATGATGATGATGATGATGATGAT 1026
Db 901 GAATATATCTGAGTTAACTCTGATGATGATGATGATGATGATGATGATGAT 960
Oy 1027 GTAGTACATATGCTTGGAGAGCAATAGCATGCTCTCTGGCTACTAGTGATTA 1086
Db 961 GTAGTACATATGCTTGGAGAGCAATAGCATGCTCTCTGGCTACTAGTGATTA 1020
Oy 1087 AAGAGATATAGCAATTTATTAATGCTCTGATGAGAGTCTTCTACTTACTACCA 1146
Db 1021 AAGAGATATAGCAATTTATTAATGCTCTGATGAGAGTCTTCTACTTACTACCA 1080
Oy 1147 AGTCTATATATGATGAAATATATTAATGATGATGATGATGATGATGATGAT 1206
Db 1081 AGTCTATATATGATGAAATATATTAATGATGATGATGATGATGATGATGAT 1140
Oy 1207 TTAAGAGATATGCTTAACTGATGAGAGTGTGATGATGATGATGATGATGAT 1266
Db 1141 TTAAGAGATATGCTTAACTGATGAGAGTGTGATGATGATGATGATGATGAT 1200
Oy 1267 GCTTTTCTGCAATTAAGCATAGGCTGAAGTATGATGATGATGATGATGATGAT 1326
Db 1201 GCTTTTCTGCAATTAAGCATAGGCTGAAGTATGATGATGATGATGATGATGAT 1260
Oy 1327 ATATATGCTGATTCAGAAATATTCATAGTATGATGATGATGATGATGATGAT 1386
Db 1261 ATATATGCTGATTCAGAAATATTCATAGTATGATGATGATGATGATGATGAT 1320

http://es.ScoreAccessWeb/Celitem.action?AppId=10753267&seqId=1089420&ItemName=20070202_145122_us-10-753-267-19.r... 28/07

Matches 1396; Conservative 0; Mismatches 1; Indels 2; Gaps 1;
Oy 67 AGGCTGCTGCAAGATTTGAANAATGGCAAGATGATGATGATGATGATGATGAT 126
Db 1 AGGCTGCTGCAAGATTTGAANAATGGCAAGATGATGATGATGATGATGATGAT 60
Oy 127 GCATCTCTGGTGTGGATATGATGATGATGATGATGATGATGATGATGATGAT 186
Db 61 GCATCTCTGGTGTGGATATGATGATGATGATGATGATGATGATGATGATGAT 120
Oy 187 TTTAANAATGGTGTGGATATGATGATGATGATGATGATGATGATGATGATGAT 246
Db 121 TTTAANAATGGTGTGGATATGATGATGATGATGATGATGATGATGATGATGAT 180
Oy 247 GGATGCTTATAGTATGAAAGGCTTTATCTTCTTCTTCTTCTTCTTCTTCTTCT 306
Db 181 GGATGCTTATAGTATGAAAGGCTTTATCTTCTTCTTCTTCTTCTTCTTCTTCT 240
Oy 307 CAATTTATAGCTATATGAAANAATCAAAATTCAGAGATGATGATGATGATGAT 366
Db 241 CAATTTATAGCTATATGAAANAATCAAAATTCAGAGATGATGATGATGATGAT 300
Oy 367 ACCAATGGAAGTGTTCAGAAATGCTCTCTTCTTCTTCTTCTTCTTCTTCTTCT 426
Db 301 ACCAATGGAAGTGTTCAGAAATGCTCTCTTCTTCTTCTTCTTCTTCTTCTTCT 360
Oy 427 ATTGTGGAAGCTATATTTACAGAGATTTCTCATATATCTTCTTCTTCTTCTTCT 486
Db 361 ATTGTGGAAGCTATATTTACAGAGATTTCTCATATATCTTCTTCTTCTTCTTCT 420
Oy 487 CCAAGATGATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 546
Db 421 CCAAGATGATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 480
Oy 547 CACTATTTCTGCTAGATCTTACACCAAGATATACAGATATATTCATAAGTT 606
Db 481 CACTATTTCTGCTAGATCTTACACCAAGATATACAGATATATTCATAAGTT 540
Oy 607 CATCATGATGATGCGATGCGATGCGATGCGATGCGATGCGATGCGATGCGATG 666
Db 541 CATCATGATGATGCGATGCGATGCGATGCGATGCGATGCGATGCGATGCGATG 600
Oy 667 CTAACTCTGGAAGTGGATTTTCTGATGATGATGATGATGATGATGATGATGAT 726
Db 601 CTAACTCTGGAAGTGGATTTTCTGATGATGATGATGATGATGATGATGATGAT 660

http://es.ScoreAccessWeb/Celitem.action?AppId=10753267&seqId=1089420&ItemName=20070202_145122_us-10-753-267-19.r... 28/07

Oy 1387 TTTTATATTTTGTGAGCAAGGCAAGCAAGCTCTCTCTGCTGGAGTGTGGTG 1446
Db 1321 TTTTATATTTTGTGAGCAAGGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 1378
Oy 1447 CACAGTCTGCTCACTCTC 1465
Db 1379 CACAGTCTGCTCACTCTC 1397

RESULT 4
US-10-537-121-10
: Sequence 10, Application US/10537121
: Publication No. US2006026937A1
: GENERAL INFORMATION:
: APPLICANT: diadexus, Inc.
: INVENTOR: Turner, Leah
: APPLICANT: Turner, Leah
: APPLICANT: Turner, Leah
: TITLE OF INVENTION: Compositions and Methods Relating to Colon Specific Genes and Proteins
: FILE REFERENCE: DEX-0449
: CURRENT APPLICATION NUMBER: US/10/537,121
: PRIOR FILING DATE: 2005-06-02
: PRIOR FILING DATE: 2002-12-04 US 60/431,143
: PRIOR FILING DATE: 2002-12-04 US 60/431,206
: NUMBER OF SEQ ID NOS: 259
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 10
: LENGTH: 1956
: TYPE: DNA
: ORGANISM: Homo sapien
US-10-537-121-10

Query Match 75.5%; Score 1106.4; DB 6; Length 1956;
Best Local Similarity 99.7%; Pred. No. 1, 1e-199;
Matches 1119; Conservative 0; Mismatches 1; Indels 2; Gaps 1;
Oy 144 AGATAGCGAGAGCATGGGAACCAATGGAAGTGTTCAGAGTCTTCTTCTTATC 403
Db 97 AGATAGCGAGAGCATGGGAACCAATGGAAGTGTTCAGAGTCTTCTTCTTATC 156
Oy 404 ACTTCTGCTCAAGTGGCTTGTGATGATGATGATGATGATGATGATGATGATGAT 463
Db 157 ACTTCTGCTCAAGTGGCTTGTGATGATGATGATGATGATGATGATGATGATGAT 216

http://es.ScoreAccessWeb/Celitem.action?AppId=10753267&seqId=1089420&ItemName=20070202_145122_us-10-753-267-19.r... 28/07

Best Local Similarity 98.61; Pred. No. 3,6e-171; Matches 974; Conservative 0; Mismatches 13; Indels 1; Gaps 1;	
Oy	1 TTGGACACCTGGGAGTCTCTGGTGGGCGGCGATCATCTCGGGCGTTTCAGA 60
Db	1 TTTGGACACCTGGGAGTCTCTGGTGGGCGGCGATCATCTCGGGCGTTTCAGA 60
Oy	88 TTGGACACCTGGGAGTCTCTGGTGGGCGGCGATCATCTCGGGCGTTTCAGA 147
Db	88 TTGGACACCTGGGAGTCTCTGGTGGGCGGCGATCATCTCGGGCGTTTCAGA 147
Oy	61 ATATAGCGCTGCTGAGACATATGAAATATGGAAGTGGAGATGATGATGAT 120
Db	61 ATATAGCGCTGCTGAGACATATGAAATATGGAAGTGGAGATGATGATGAT 120
Oy	148 ATATAGCGCTGCTGAGACATATGAAATATGGAAGTGGAGATGATGATGAT 207
Db	148 ATATAGCGCTGCTGAGACATATGAAATATGGAAGTGGAGATGATGATGAT 207
Oy	121 AGTCAGATCTCTGGTGGGAGTATGATGATGATGATGATGATGATGATGAT 180
Db	121 AGTCAGATCTCTGGTGGGAGTATGATGATGATGATGATGATGATGATGAT 180
Oy	208 AGTCAGATCTCTGGTGGGAGTATGATGATGATGATGATGATGATGATGAT 267
Db	208 AGTCAGATCTCTGGTGGGAGTATGATGATGATGATGATGATGATGATGAT 267
Oy	181 GAACGATTAAGATGCTGGAGCTATGATGATGATGATGATGATGATGATGAT 240
Db	181 GAACGATTAAGATGCTGGAGCTATGATGATGATGATGATGATGATGATGAT 240
Oy	268 GAACGATTAAGATGCTGGAGCTATGATGATGATGATGATGATGATGATGAT 327
Db	268 GAACGATTAAGATGCTGGAGCTATGATGATGATGATGATGATGATGATGAT 327
Oy	241 ACATGGGATCGCTATGATGATGATGATGATGATGATGATGATGATGATGAT 300
Db	241 ACATGGGATCGCTATGATGATGATGATGATGATGATGATGATGATGATGAT 300
Oy	328 ACATGGGATCGCTATGATGATGATGATGATGATGATGATGATGATGATGAT 387
Db	328 ACATGGGATCGCTATGATGATGATGATGATGATGATGATGATGATGATGAT 387
Oy	301 TTTATTCATTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db	301 TTTATTCATTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Oy	388 TTTATTCATTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 447
Db	388 TTTATTCATTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 447
Oy	361 TGGGAACCAATGGAAGTCTCTGATGATGATGATGATGATGATGATGATGAT 420
Db	361 TGGGAACCAATGGAAGTCTCTGATGATGATGATGATGATGATGATGATGAT 420
Oy	448 TGGGAACCAATGGAAGTCTCTGATGATGATGATGATGATGATGATGATGAT 507
Db	448 TGGGAACCAATGGAAGTCTCTGATGATGATGATGATGATGATGATGATGAT 507
Oy	421 CTTTGGATTTGGAGCTATTTATGATGATGATGATGATGATGATGATGATGAT 480
Db	421 CTTTGGATTTGGAGCTATTTATGATGATGATGATGATGATGATGATGATGAT 480
Oy	508 CTTTGGATTTGGAGCTATTTATGATGATGATGATGATGATGATGATGATGAT 567
Db	508 CTTTGGATTTGGAGCTATTTATGATGATGATGATGATGATGATGATGATGAT 567
Oy	481 AGATCGCAAGTATTTCTTGGAGATGATGATGATGATGATGATGATGATGAT 540
Db	481 AGATCGCAAGTATTTCTTGGAGATGATGATGATGATGATGATGATGATGAT 540
Oy	568 AGATCGCAAGTATTTCTTGGAGATGATGATGATGATGATGATGATGATGAT 627
Db	568 AGATCGCAAGTATTTCTTGGAGATGATGATGATGATGATGATGATGATGAT 627
Oy	541 ACTTGGCACTTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 600
Db	541 ACTTGGCACTTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 600
Oy	628 ACTTGGCACTTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 687
Db	628 ACTTGGCACTTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 687
Oy	601 AAGTTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
Db	601 AAGTTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089420&ItemName=20070202_145122_us-10-753-267-19.t... 2/8/07

PRIORITY APPLICATION NUMBER: 60/459,493 PRIORITY FILING DATE: 2005-03-07 PRIORITY APPLICATION NUMBER: 60/459,492 PRIORITY FILING DATE: 2005-03-07 PRIORITY APPLICATION NUMBER: 60/453,586 PRIORITY FILING DATE: 2005-02-15 PRIORITY APPLICATION NUMBER: 60/451,390 PRIORITY FILING DATE: 2005-02-08 PRIORITY APPLICATION NUMBER: 60/451,389 SOFTWARE: Patent version 3.3 SEQ ID NO 75334 LENGTH: 882 TYPE: DNA ORGANISM: Homo sapiens US-11-371-354-75334	
Query Match Best Local Similarity 100.0%; Pred. No. 3.6e-157; Matches 881; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	

Result Summary	Score 881; DB 7; Length 882;
----------------	------------------------------

Db	688 AAGTTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 747
Oy	661 GAGACTTATTTTGGAGTGGATTTTTCATGGAATGGTCTTTTGTGATCATGTA 720
Db	661 GAGACTTATTTTGGAGTGGATTTTTCATGGAATGGTCTTTTGTGATCATGTA 720
Oy	748 GAGACTTATTTTGGAGTGGATTTTTCATGGAATGGTCTTTTGTGATCATGTA 807
Db	748 GAGACTTATTTTGGAGTGGATTTTTCATGGAATGGTCTTTTGTGATCATGTA 807
Oy	721 ATTCTCTTTGGGATGGTGGATGATGATGATGATGATGATGATGATGATGATGAT 780
Db	721 ATTCTCTTTGGGATGGTGGATGATGATGATGATGATGATGATGATGATGATGAT 780
Oy	808 ATTCTCTTTGGGATGGTGGATGATGATGATGATGATGATGATGATGATGATGAT 867
Db	808 ATTCTCTTTGGGATGGTGGATGATGATGATGATGATGATGATGATGATGATGAT 867
Oy	781 TATGATATCTCTCAACCTTTTAAATGATGATGATGATGATGATGATGATGATGAT 840
Db	781 TATGATATCTCTCAACCTTTTAAATGATGATGATGATGATGATGATGATGATGAT 840
Oy	868 TATGATATCTCTCAACCTTTTAAATGATGATGATGATGATGATGATGATGATGAT 927
Db	868 TATGATATCTCTCAACCTTTTAAATGATGATGATGATGATGATGATGATGATGAT 927
Oy	841 GATTCGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
Db	841 GATTCGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
Oy	901 ATTTTGGAGAGCTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
Db	901 ATTTTGGAGAGCTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
Oy	988 ATTTTGGAGAGCTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1046
Db	988 ATTTTGGAGAGCTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1046
Oy	961 AAGACTGATTAATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 986
Db	961 AAGACTGATTAATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 986
Oy	1047 AGACTGATTAATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1074
Db	1047 AGACTGATTAATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1074

RESULT 8
US-11-371-354-75334
Sequence 75334, Application US/11371354
Description: A method for identifying matched reagents
GENERAL INFORMATION:
APPLICANT: CARRIHO, JOHN
TITLE OF INVENTION: COLLECTIONS OF MATCHED BIOLOGICAL REAGENTS AND METHODS FOR
FILE REFERENCE: INV-1005-UT2 US/11371354
CURRENT FILING DATE: 2005-03-07
PRIORITY APPLICATION NUMBER: 60/459,493
PRIORITY FILING DATE: 2005-04-19
PRIORITY APPLICATION NUMBER: 60/465,199
PRIORITY FILING DATE: 2005-03-25
PRIORITY APPLICATION NUMBER: 60/465,200
PRIORITY FILING DATE: 2005-03-25

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089420&ItemName=20070202_145122_us-10-753-267-19.t... 2/8/07


```
Oy 61 ATTATAGGCTGCTGCGAGATGTAAGAAATGGAACATGAAGATGTCAGATCTTT 120
Db 61 ATTATAGGCTGCTGCGAGATGTAAGAAATGGAACATGAAGATGTCAGATCTTT 120
Oy 121 AGTCAGCATCTTGGCTGTGGATATGATGATGATGATGATGATGATGATGATG 180
Db 121 AGTCAGCATCTTGGCTGTGGATATGATGATGATGATGATGATGATGATGATG 180
Oy 181 GAACTATTAAGATGCTGGAGATATGATGATGATGATGATGATGATGATGAT 240
Db 181 GAACTATTAAGATGCTGGAGATATGATGATGATGATGATGATGATGATGAT 240
Oy 241 ACATGGGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 300
Db 241 ACATGGGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 300
Oy 301 TATTTATGATTTAGCTATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 301 TATTTATGATTTAGCTATGATGATGATGATGATGATGATGATGATGATGAT 360
Oy 361 TGGGAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 420
Db 361 TGGGAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 420
Oy 421 CTTTGGATTTGGAGCTATTTATGATGATGATGATGATGATGATGATGATGAT 480
Db 421 CTTTGGATTTGGAGCTATTTATGATGATGATGATGATGATGATGATGATGAT 480
Oy 481 AGATGCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
Db 481 AGATGCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
Oy 541 ACTTGGGATCTTTTGGAGCTATTTATGATGATGATGATGATGATGATGATGAT 600
Db 541 ACTTGGGATCTTTTGGAGCTATTTATGATGATGATGATGATGATGATGATGAT 600
Oy 601 AAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
Db 601 AAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
Oy 661 GAGACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
Db 661 GAGACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
```

http://es/ScoreAccessWeb/CeilItem.action?AppId=10753267&seqId=1089419&ItemName=20070202_145118_us-10-753-267-19.t... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070202_145118_us-10-753-267-19.mphm. Page 7 of 23

```
Db 1381 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 1440
Oy 1441 TGTGGGACAGCTGAGCTGATCTG 1465
Db 1441 TGTGGGACAGCTGAGCTGATCTG 1465

RESULT 2
US-10-786-148-138
: Sequence 138, Application US/10786148
: Publication No. US2005019163A1
: GENERAL INFORMATION:
: APPLICANT: NING, JIAN-TUAN
: INVENTOR: NING, JIAN-TUAN FOR DIAGNOSING COLORECTAL CANCER
: FILE REFERENCE: BHT/3130-45
: CURRENT APPLICATION NUMBER: US/10786.148
: CURRENT FILING DATE: 2004-02-26
: NUMBER OF SEQ ID NOS: 142
: SOFTWARE: PatentIn version 3.2
: SEQ ID NO 138
: LENGTH: 1741
: TYPE: DNA
: ORGANISM: Homo sapiens
US-10-786-148-138

Query Match 98.81; Score 1447.8; DB 10; Length 1741;
Best Local Similarity 99.71; Pred. No. 0;
Matches 1461; Conservative 0; Mismatches 2; Gaps 1;

Oy 1 TTGGGAACAGCTGGGAGCTGCTGGTGGTGGGAGAGTATCTGGGCGCTTCAGA 60
Db 1 TTGGGAACAGCTGGGAGCTGCTGGTGGTGGGAGAGTATCTGGGCGCTTCAGA 60

Oy 61 ATTATAGGCTGCTGCGAGATGTAAGAAATGGAACATGAAGATGTCAGATCTTT 120
Db 61 ATTATAGGCTGCTGCGAGATGTAAGAAATGGAACATGAAGATGTCAGATCTTT 120
Oy 121 AGTCAGCATCTTGGCTGTGGATATGATGATGATGATGATGATGATGATGATG 180
Db 121 AGTCAGCATCTTGGCTGTGGATATGATGATGATGATGATGATGATGATGATG 180
Oy 181 GAACTATTAAGATGCTGGAGATATGATGATGATGATGATGATGATGATGAT 240
Db 181 GAACTATTAAGATGCTGGAGATATGATGATGATGATGATGATGATGATGAT 240
Oy 241 ACATGGGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 300
Db 241 ACATGGGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 300
```

http://es/ScoreAccessWeb/CeilItem.action?AppId=10753267&seqId=1089419&ItemName=20070202_145118_us-10-753-267-19.t... 28/07

```
Oy 721 ATTCCTCTTGGGATGGGTGAGCATGCTGTTATTAGAACTATTGATGCTCATAGGT 780
Db 721 ATTCCTCTTGGGATGGGTGAGCATGCTGTTATTAGAACTATTGATGCTCATAGGT 780
Oy 781 TATGATATTGCTTCAGCTCTTAAATGATGATGATGATGATGATGATGATGAT 840
Db 781 TATGATATTGCTTCAGCTCTTAAATGATGATGATGATGATGATGATGATGAT 840
Oy 841 GATTCAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
Db 841 GATTCAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
Oy 901 ATTTTGGAGAGCTCTGATTAATGCTGATTAATGAAAGAGGAGGAAGTTGAGAA 960
Db 901 ATTTTGGAGAGCTCTGATTAATGCTGATTAATGAAAGAGGAGGAAGTTGAGAA 960
Oy 961 AAGCTGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
Db 961 AAGCTGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
Oy 1021 AACTAGTAGTACATGCTCTGGAGAGAGAAATAGCATGCTCTCTGGCTACTAG 1080
Db 1021 AACTAGTAGTACATGCTCTGGAGAGAGAAATAGCATGCTCTCTGGCTACTAG 1080
Oy 1081 TGAATAAAGAGATTAAGAGCTTTAATAGCTGCTAGTGGAGATTTTCTACTTA 1140
Db 1081 TGAATAAAGAGATTAAGAGCTTTAATAGCTGCTAGTGGAGATTTTCTACTTA 1140
Oy 1141 CTTAGAGCTCTATATGATGAATGAATTAATATTAGTACAGTTTTCATGAG 1200
Db 1141 CTTAGAGCTCTATATGATGAATGAATTAATATTAGTACAGTTTTCATGAG 1200
Oy 1201 GAGTTTAAAGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 1260
Db 1201 GAGTTTAAAGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 1260
Oy 1261 ATCTATGGCTTTCTCCAGTAAAGCATAGGCTGAACTTCAATGCTTTAATTC 1320
Db 1261 ATCTATGGCTTTCTCCAGTAAAGCATAGGCTTCAATGCTTTAATTC 1320
Oy 1321 TTTTATGATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1380
Db 1321 TTTTATGATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1380
Oy 1381 AGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 1440
```

http://es/ScoreAccessWeb/CeilItem.action?AppId=10753267&seqId=1089419&ItemName=20070202_145118_us-10-753-267-19.t... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070202_145118_us-10-753-267-19.mphm. Page 8 of 23

```
Db 181 GAGCATTTAAATATCTTGGAGATTAATGTTGAATTAATACAAAGTTCAGATGCA 240
Oy 241 ACATGGGATGCTTATGATGATGATGATGATGATGATGATGATGATGATGATG 300
Db 241 ACATGGGATGCTTATGATGATGATGATGATGATGATGATGATGATGATGATG 300
Oy 301 TATTTCAATTAATGCTTATATGAAATTAACAAATTCAAAGGATAGCGAGAGCA 360
Db 301 TATTTCAATTAATGCTTATATGAAATTAACAAATTCAAAGGATAGCGAGAGCA 360
Oy 361 TGGGAAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
Db 361 TGGGAAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
Oy 421 CTTTGAATTCGAGACCTATATTTTACAGAGTATTCATATCTTATGATGGAA 480
Db 421 CTTTGAATTCGAGACCTATATTTTACAGAGTATTCATATCTTATGATGGAA 480
Oy 481 AGATGCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 540
Db 481 AGATGCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 540
Oy 541 ACTTGGGATGCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 600
Db 541 ACTTGGGATGCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 600
Oy 601 AAGTTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 660
Db 601 AAGTTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 660
Oy 661 GAGACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
Db 661 GAGACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
Oy 721 ATTCCTCTTGGGATGGGTGAGCATGCTGTTATTAGAACTATTGATGCTCATAGGT 780
Db 721 ATTCCTCTTGGGATGGGTGAGCATGCTGTTATTAGAACTATTGATGCTCATAGGT 780
Oy 781 TATGATATTGCTTCAGCTCTTAAATGATGATGATGATGATGATGATGATGAT 840
Db 781 TATGATATTGCTTCAGCTCTTAAATGATGATGATGATGATGATGATGATGAT 840
Oy 841 GATTCAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
Db 841 GATTCAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
```

http://es/ScoreAccessWeb/CeilItem.action?AppId=10753267&seqId=1089419&ItemName=20070202_145118_us-10-753-267-19.t... 28/07

1 PRIOR APPLICATION NUMBER: US 60/237,054
2 PRIOR FILING DATE: 2000-10-02
3 NUMBER OF SEQ ID NOS: 3950
4 SOFTWARE: PatentIn Ver. 2.1
5 SEQ ID NO 3400
6 LENGTH: 1751
7 TYPE: DNA
8 ORGANISM: Homo sapiens
9 COMMENT: Homo sapiens
10 OTHER INFORMATION: Genbank Accession No. U32002014591A1 U60205
11 US-09-880-107-3400

Query Match 94.01; Score 1376.6; DB 3; Length 1751;
Best Local Similarity 99.61; Pred. No. 1.4e-307;
Matches 1391; Conservative 0; Mismatches 4; Indels 2; Gaps 1;
Oy 69 GCTCTGCGAGATTTGAAATGCGACAAATGAAGTGTGAGATTTTATTTGCG 128
Db 5 GATGCTGCGAGATTTGAAATGCGACAAATGAAGTGTGAGATTTTATTTGCG 64
Oy 129 ATCTGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 188
Db 65 ATCTGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 124
Oy 189 TAAATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 248
Db 125 TAAATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 184
Oy 249 ATCTGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 308
Db 185 ATCTGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 244
Oy 309 ATTTATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 368
Db 245 ATTTATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 304
Oy 369 GATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 428
Db 305 GATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 364
Oy 429 TTGCGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 488
Db 365 TTGCGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 424
Oy 489 AGATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 548

http://es.ScoreAccessWeb/Celitem.action?AppId=10753267&seqId=1089419&ItemName=20070202_145118_us-10-753-267-19.r... 2/8/07

Db 1085 TTCTATATGTAGAAATGAAATATATATATATATATATATATATATATATATAT 1144
Oy 1209 AAGAGATGCTGCTGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1268
Db 1145 AAGAGATGCTGCTGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1204
Oy 1269 CTCTGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1328
Db 1205 CTCTGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1264
Oy 1329 ATATGCTGCTGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1388
Db 1265 ATATGCTGCTGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1324
Oy 1389 TTATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1448
Db 1325 TTATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1382
Oy 1449 GAGTCTGAGCTACTGC 1465
Db 1383 GAGTCTGAGCTACTGC 1399

RESULT 5
US-09-846-406-5
1 Sequence 5, Application US/0994606
2 Patent No. US2002012956A1
3 GENERAL INFORMATION:
4 APPLICANT: Herman, Gail E.
5 APPLICANT: Kelley, Richard J.
6 APPLICANT: Grange, Dorothy K.
7 TITLE OF INVENTION: RIGIDITY-SENSITIVE ENZYME
8 FILE REFERENCE: 20335/3435
9 CURRENT FILING DATE: 2001-09-05
10 PRIOR APPLICATION NUMBER: US/09/946,406
11 PRIOR FILING DATE: 2000-06-01
12 NUMBER OF SEQ ID NOS: 2
13 SOFTWARE: PatentIn Ver. 2.0
14 SEQ ID NO 5
15 LENGTH: 1751
16 TYPE: DNA
17 ORGANISM: Homo sapiens
18 FEATURE:

http://es.ScoreAccessWeb/Celitem.action?AppId=10753267&seqId=1089419&ItemName=20070202_145118_us-10-753-267-19.r... 2/8/07

Db 425 AAGATGCTGCTGCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 484
Oy 549 CTATTTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 608
Db 485 CTATTTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 544
Oy 609 TCATGATTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 668
Db 545 TCATGATTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 604
Oy 669 AATTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 728
Db 605 AATTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 664
Oy 729 TTGCGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 788
Db 725 TTGCGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 724
Oy 789 TCCTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 848
Db 725 TCCTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 784
Oy 849 GAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 908
Db 785 GAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 844
Oy 909 AACAGATTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 968
Db 845 AACAGATTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 904
Oy 969 ATAAATGCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1028
Db 905 ATAAATGCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 964
Oy 1029 AGCTACATTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1088
Db 965 AGCTACATTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1024
Oy 1089 AGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1148
Db 1025 AGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 1084
Oy 1149 TTCTATATGTAGAAATGAAATATATATATATATATATATATATATATATATAT 1208

http://es.ScoreAccessWeb/Celitem.action?AppId=10753267&seqId=1089419&ItemName=20070202_145118_us-10-753-267-19.r... 2/8/07

1 NAME/KEY: CDS
2 LOCATION: (27)..(908)
3 US-09-846-406-5
Query Match 94.01; Score 1376.6; DB 3; Length 1751;
Best Local Similarity 99.61; Pred. No. 1.4e-307;
Matches 1391; Conservative 0; Mismatches 4; Indels 2; Gaps 1;
Oy 69 GCTCTGCGAGATTTGAAATGCGACAAATGAAGTGTGAGATTTTATTTGCG 128
Db 5 GATGCTGCGAGATTTGAAATGCGACAAATGAAGTGTGAGATTTTATTTGCG 64
Oy 129 ATCTGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 188
Db 65 ATCTGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 124
Oy 189 TAAATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 248
Db 125 TAAATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 184
Oy 249 ATCTGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 308
Db 185 ATCTGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 244
Oy 309 ATTTATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 368
Db 245 ATTTATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 304
Oy 369 GATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 428
Db 305 GATGCTGCGAGATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 364
Oy 429 TTGCGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 488
Db 365 TTGCGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 424
Oy 489 AAGATGCTGCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 548
Db 425 AAGATGCTGCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 484
Oy 549 CTATTTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 608
Db 485 CTATTTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 544
Oy 609 TCATGATTTCTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTGAGATTTTATTTG 668

http://es.ScoreAccessWeb/Celitem.action?AppId=10753267&seqId=1089419&ItemName=20070202_145118_us-10-753-267-19.r... 2/8/07

APPLICANT: Odell, Joan T.
APPLICANT: Sahal, Najim
APPLICANT: Thorpe, Catherine J.
APPLICANT: Kinney, Anthony J.
APPLICANT: Fambou, Omoayo O.
TITLE OF INVENTION: STEROL METABOLISM ENHANCES
CURRENT APPLICATION NUMBER: US/09/439,554
CURRENT FILING DATE: 1999-11-12
EARLIER APPLICATION NUMBER: 60/108,351
EARLIER FILING DATE: 1998-No. 6479233ember-13
NUMBER OF SEQ ID NOS: 30
SOFTWARE: Microsoft Office 97
SEQ ID NO 376
LENGTH: 776
TYPE: DNA
ORGANISM: Triticum aestivum
FEATURE:
NAME/KEY: unsave
LOCATION: (573)
NAME/KEY: unsave
LOCATION: (573)
NAME/KEY: unsave
LOCATION: (633)
FEATURE:
NAME/KEY: unsave
LOCATION: (667)
FEATURE:
NAME/KEY: unsave
LOCATION: (682)
FEATURE:
NAME/KEY: unsave
LOCATION: (743)
US-09-439-554-7

Query Match 6.11; Score 89.2; DB 3; Length 776;
Best Local Similarity 54.21; Pred. No. 2.6e-12;
Matches 191; Conservative 0; Mismatches 153; Indels 0; Gaps 0;
Oy 518 TTGGTGTGAGTCATGAGATCTGGCATATTTCTGATAGATGCTTACACACA 577
Db 12 TTTTATTTATCTGAGATTTCTATTTCTATTTGGGGCACAGGGCTCTGCATACCA 71
Oy 578 AAGATATACAGTATATCATTAAGTCTCATATGATTTGAGGCTGCTTGGATGG 637
Db 72 ATGGCTATACAGATGCTGATGAGTGGATGATTTGCTACAGATCGGCTTAA 131

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089416&ItemName=20070202_145106_us-10-753-267-19.t... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070202_145106_us-10-753-267-19.mi. Page 19 of 23

Matches 102; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
Oy 1311 TCTTAACTTATGATATAGTGTGATCTTACGAAATTTCTATAGTGTATGCG 1370
Db 51123 TCTTATGATATATTAATATTCATTTATTAATTTATTAATTTCTTTCTTTC 51182
Oy 1371 CTATATTAATCTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 1430
Db 51183 CTATCTTTCTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 51242
Oy 1431 GCGTGAGTGTGGGACAGCTGAGCTAGCTG 1465
Db 51243 GCGTGAGTGTGATGATGCAATAGCTAGCTG 51277

RESULT 10
US-09-533-559-3782
Sequence 3782, Application US/09533559
Patent No. 6902887
GENERAL INFORMATION:
APPLICANT: Randy M. Berke
APPLICANT: Michael W. Rey
APPLICANT: Jeffrey R. Shuster
APPLICANT: Jeffrey R. Shuster
APPLICANT: Ib Groth Clausen
APPLICANT: Peter Bjarke Olsen
TITLE OF INVENTION: Methods For Monitoring Multiple Gene
TITLE OF INVENTION: Expression
FILE REFERENCE: 5849,200-US US/09/533,559
CURRENT APPLICATION NUMBER: 09/533,559
EARLIER APPLICATION NUMBER: 09/273,623
EARLIER FILING DATE: 1999-03-22
NUMBER OF SEQ ID NOS: 7860
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3782
LENGTH: 839
TYPE: DNA
ORGANISM: Apicquillus niger
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(839)
OTHER INFORMATION: n = A,T,C or G
US-09-533-559-3782

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089416&ItemName=20070202_145106_us-10-753-267-19.t... 28/07

Oy 638 AAGTGATATGACATCTTGGAGACTCTATCTCTGGAGCTGATCTTTCATTCGAA 697
Db 132 CTTCGGATATGACACCTGCTGAATTTCTCTGGAGATTTGCGACGCTTGTGTC 191
Oy 698 TGTGCTTTTGTGATCATATATCTCTTTGGGCA TGGGTGACATCTGTTATTAG 157
Db 192 CTGCGCTGACGCGCTCAGCTCTTCTGAGCTTTGCTGAGATGTTTGGGCTTAG 251
Oy 758 AACTATGATGCTAGCTGATGATATCTGCTGACGCTTAACTGATGCTCT 817
Db 252 AGAGCTTGAGCTGACGTGATGATCTCTCTGGAGGCTCAACTCTCTGCCAC 311
Oy 818 TCTATCTGCTTCTGGGATCATATGATTTGCCACA 851
Db 312 TGTATGGAGGCTCTGATCTGATGATGATGATCA 345

RESULT 9
US-09-949-016-16188
Sequence 16188, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: Venter, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/731,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16188
LENGTH: 62334
TYPE: DNA
ORGANISM: Human
US-09-949-016-16188
Query Match 4.81; Score 70.2; DB 3; Length 62334;
Best Local Similarity 65.81; Pred. No. 3.1e-07;

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089416&ItemName=20070202_145106_us-10-753-267-19.t... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070202_145106_us-10-753-267-19.mi. Page 20 of 23

Query Match 4.61; Score 67.8; DB 3; Length 839;
Best Local Similarity 50.61; Pred. No. 4.7e-03;
Matches 202; Conservative 0; Mismatches 182; Indels 15; Gaps 1;
Oy 530 TCATTGAAGATCTGGCACTATTTCTGATAGACTTTACACACAAAGATATACA 589
Db 290 TCGTGAAGATACATACACTGCTGCTCATCTGCTTCTACGGGGCTGCTGATC 349
Oy 590 ACTATATGATTAAGTTATATATCTGAGCTCA TTTGGAATGGAAGCTGAATG 649
Db 350 GTGCACTACCGGCTGACACCATATGCGCGCTTTGGGTACGCGCGAGTAG 409
Oy 650 CACATCTTTGGAGACTATATTTCTGGAAGTGAATTTTTCATTTGGAATCTGCTTTGT 709
Db 410 CGAGCGCTGGAGACCATCTCTTCTGCTGGGACAGATTGGACCCCTTTGGTTCTGG 469
Oy 710 GTGAT-----CATGATCTCTTTGGGATGCGGATGACATCTGTTAT 754
Db 470 GTACTTTACGGGGAATGATCTATTTGATGATCTGCTGCTGCTTGTGCTGCT 529
Oy 755 TAGAAGCTATGATGCTCATATGCTGATATGATTTCTCTCAACCTTTAAATCTGATCC 814
Db 530 TCGAGCATCGACCGCATCTTGATATGATTTCTTCTGAGCTGAGACGATCTCC 589
Oy 815 GTTCTGCTGCTTCTGGGATATGATTTCTGACATGATCTGATCTGGAAGCTAG 874
Db 590 CCGTGTGGGAGGATCGGACTGGCATGACATCAGCATGCTGACTTGGGGGGAAGTACT 649
Oy 875 CTCAACATTTACATGCTGGGATGGAATTTTGGACAG 913
Db 650 CTAGCTGTTTAAAGCACTGGCATATCTTATGGAAGGG 688

RESULT 11
US-09-949-016-12378/c
Sequence 12378, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: Venter, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089416&ItemName=20070202_145106_us-10-753-267-19.t... 28/07

SCORE Search Results Details for Application 10753267 and Search Result 20070202_145104_us-10-753-267-19.rst.

[Score Home Page](#) [Retrieval Application List](#) [SCORE System Overview](#) [SCORE FAQ](#) [Comments / Suggestions](#)

This page gives you Search Results detail for the Application 10753267 and Search Result 20070202_145104_us-10-753-267-19.rst.
[Start](#) | [Next page](#)

Go Back to previous page

GenCore version 6.2
Copyright (c) 1993 - 2007 Bioacceleration Ltd.

ON nucleic - nucleic search, using sw model

```

Run on: February 5, 2007, 13:38:19 : Search time 11913 seconds
      (without alignments)
      7629.489 Million cell updates/sec

```

```

title: US-10-753-267-19
perfect score: 1465
sequence: 1 TGAAGACCTGACGATCC.....GCACATCTCACTCACTCA 1465

```

```

Scoring table:  IDENTITY_NUC
                  Gapop 10.0 , Gapext 1.0

Searched:       53585215 seqs, 31020513797 residues

```

Total number of hits satisfying chosen parameters: 107170430

Minimum DB seq length: 0

00000000007 :UUBPAT has no WWWWWW

Post-processing: Minimum Match 01
Maximum Match 1001
Listing first 45 summaries

Parabano ; EST:•

```
1: qb_est1:
2: qb_est1:
3: qb_est1:
```

j: qb_est4:0

5: qb_09t6:•

http://es/ScoreAccessWeb/GetItem.action?AppId=10753267&seqId=1089415&itemName=20070202_145104_us-10-753-267-19.r... 2/8/07

SSCORE Search Results Details for Application 10753267 and Search Result 20070202 145104 us-10-753-267-19.rst.

Page 3 of 23

22	816.8	57.1	1270	1270	1270	DW782563	Mr. Liver
23	810.4	56.7	1094	1094	1094	DW782564	
24	825.8	56.4	882	4	80432321	AGENCOURT	
25	821.4	56.1	1026	1	AL558050	AGENCOURT	
26	815.2	55.6	850	10	AL558050	AGENCOURT	
27	815.2	55.6	850	10	DW763189	HESCE4_1149	
28	815.2	55.6	850	10	DW763189	HESCE4_1149	
29	798.4	54.0	826	10	DC741962	AGENCOURT	
30	798.4	54.0	826	10	DC741962	AGENCOURT	
31	787.1	53.7	787	14	CX766256	DW763189	
32	787.1	53.7	787	14	CX766256	DW763189	
33	778.6	53.1	874	13	DW766049	AGENCOURT	
34	778.6	53.1	874	13	DW766049	AGENCOURT	
35	775.8	53.0	864	3	81553739	AGENCOURT	
36	775.8	52.9	900	9	CX765932	AGENCOURT	
37	775.8	52.9	900	9	CX765932	AGENCOURT	
38	763.6	52.1	758	2	81553739	AGENCOURT	
39	763.6	52.1	758	2	81553739	AGENCOURT	
40	760.5	51.9	774	9	CN021363	AGENCOURT	
41	760.5	51.9	774	9	CN021363	AGENCOURT	
42	760.5	51.9	824	2	80567581	AGENCOURT	
43	759.2	51.8	896	9	CX765932	AGENCOURT	
44	759.2	51.8	896	9	CX765932	AGENCOURT	
45	755.6	51.6	890	13	DW642786	AGENCOURT	
46	755.6	51.6	890	13	DW642786	AGENCOURT	
47	755.6	51.6	930	5	8X427268	UNC-bor_0	
48	749.8	51.2	877	7	8X427268	UNC-bor_0	
49	743.4	50.7	746	14	CX766049	AGENCOURT	
50	743.4	50.7	746	14	CX766049	AGENCOURT	
51	742.6	50.5	800	2	80567581	AGENCOURT	
52	742.6	50.5	800	2	80567581	AGENCOURT	
53	739.8	50.5	874	11	8E347128	AGENCOURT	

ALIGNMENTS

RESULTS	DEFINITION	LOCUS	2081 bp	mRNA	linear	HTC 21-JUL-2004
CR623543	full-length cDNA clone C50DM003VD10 of Fetal liver of Homo sapiens					

ACCESSION CR623543
(HUMAN) :

VERSION: CR623543.1 G115
UTR: CDS:IT -DNA

Source	Homo sapiens (human)
Organism	Homo sapiens

Eukaryota: Metazoa: Chordata: Craniata: Vertebrata; Euteleostei

Catarrhini: Hominoidea; Homo.

AUTHORS Li, W.B., Gruber, C., Jesse, J. and Polayes, D.

http://es/ScoreAccessWeb/GetItem.action?AppId=10753267&seqId=1089415&itemName=201070202_145104_us-10-753-267-19.r... 2/8/07

2/8/07

http://es/ScoreAccessWeb/GetItem.action?AppId=10753267&seqId=1089415&itemName=20070202_145104_us-10-

9.1... 2/8/07

Db	29	AGATATGACGACAGCATGGGAAMCAATGGAGGTCTTCACAGTCTCTCTTTTATC	81
Oy	404	ACTCTGTATCGAGCTGCCTTGATTCTGTTGSGAACCTATTAATTACAGAGATTTCATAA	463
Db	89	ACTCTGTATCGAGCTGCCTTGATTCTGTTGSGAACCTATTAATTACAGAGATTTCATAA	148
Oy	464	TCTCTATGATTTGGGAAGAATGSCAGATGGTATTTCTTTTGGCAGAGATCTTGCTT	523
Db	149	TCTCTATGATTTGGGAAGAATGSCAGATGGTATTTCTTTTGGCAGAGATCTTGCTT	208
Oy	524	GTGGAGTCAATGAAGAACTTGGAGCATATTTCTGATAGACTCTACACACAAAAGAA	583
Db	309	GTGGAGTCAATGAAGAACTTGGAGCATATTTCTGATAGACTCTACACACAAAAGAA	268
Oy	584	TATACAGATTAATCATMACTTATCATGATCATGATCTTAGGCTGCATTTGGATGGAAGCTG	643
Db	269	TATACAGATTAATCATMACTTATCATGATCATGATCTTAGGCTGCATTTGGATGGAAGCTG	328
Oy	644	AATATGCAATCTTTGGAGACTCTATATCTTGGAACTGGANTTTTCATPGGAATCTGTC	703
Db	329	AATATGCAATCTTTGGAGACTCTATATCTTGGAACTGGANTTTTCATPGGAATCTGTC	388
Oy	704	TTTTGTGTGATCATGATTAATCTCTTTGGGACATGCTGACCATTGTTATTAGAAACTA	763
Db	389	TTTTGTGTGATCATGATTAATCTCTTTGGGACATGCTGACCATTGTTATTAGAAACTA	448
Oy	764	TGATGTGCAATGGGTATGATATGCTCTGCAAGCTTTAAATCTGATGCCCTTCTATG	823
Db	449	TGATGTGCAATGGGTATGATATGCTCTGCAAGCTTTAAATCTGATGCCCTTCTATG	508
Oy	824	CTGCTGTGGCATCATGATTTCCACACAGATGATCTTGGAACTCATTCCTTCCAACAT	883
Db	509	CTGCTGTGGCATCATGATTTCCACACAGATGATCTTGGAACTCATTCCTTCCAACAT	568
Oy	884	TTACATGCTGGGATTCGAATTTTGGACACAGACTCTGATGATATGCTCTATATGAAAGA	943
Db	569	TTACATGCTGGGATTCGAATTTTGGACACAGACTCTGATGATATGCTCTATATGAAAGA	628
Oy	944	GGAAGAGCTTGGAGAAAGAGATGAATTAATCTGATGCTAAAGCTCTCTGAAAGATAA	1003
Db	629	GGAAGAGCTTGGAGAAAGAGATGAATTAATCTGATGCTAAAGCTCTCTGAAAGATAA	688
Oy	1004	GTTTCTCTGAAATTCGAAACTGATGATGATGCTTGTGTGGAGAGCAATATGACAT	1063

http://es/ScoreAccessWeb/Gdlitem.action?AppId=10753267&seqId=1089415&ItemName=20071002_145104

SCORE Search Results Details for Application 10753267 and Search Result 20070202_145104

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT	FEATURES	ORIGIN
http://fulllength.invitrogen.com/InvitrodenCorporation1600	2	Sherday Avenue Genoscope, 1 To 1545)	Direct Submission	Submitted [20-JUL-2004] Genoscope - Centre National de Sequence : BP 191 91006 EVRY cedex - FRANCE (E-mail : seq@effgenoscope.cns.fr) - Web : www.genoscope.cns.fr) The last strand cDNA was primed with a Hoti-oligo(dT) primer. Five prime end enriched cDNA and second cDNAs were ligated with NotI and cloned into pCR2.1 vector. The library was constructed by Life Technologies. A normalized library was constructed by Life Technologies. A division of Invitrogen.	Location/Qualifiers 1. .1545 /organism="Homo sapiens" /mol_type="RNA" db_xref="taxid:9606" /db_xref="GeneID:121916" /tissue_type="HeLa cells Cot 35-normalized" /plasmid="PCMVSPORT_6"	Query Match Best Local Similarity 95.7% Pred. No. 1 Je-197; Matches 931; Conservative 0; Mismatches 1; Indels 2; Gaps 1;
512	GATCGTTTGGTGGAGTCAATTAAGATATGCGACATATTTCTGCGATAGACTCTTAC	571				
Oy	* 1 GATCGTTTGGTGGAGTCAATTAAGATATGCGACATATTTCTGCGATAGACTCTTAC	608				
Db						
Oy	572	ACGCAAAAGATATACAGTATATTCATMAAGTGCATGAGTTTCAGGCTCCATTGTG	631			
Db	61	ACGCAAAAGATATACAGTATATTCATMAAGTGCATGAGTTTCAGGCTCCATTGTG	120			
Oy	632	GAATGAGAGCAATATGATGCTCTTGGAGACTCTTAATCTGGAAGCTGATTCTTCA	691			
Db	121	GAATGAGAGCAATATGATGCTCTTGGAGACTCTTAATCTGGAAGCTGATTCTTCA	180			
Oy	692	TGGAATCTGCTTTGTGATCATCATGATATCTCTTGGGATGGGTGACATCGTT	751			
Db	181	TGGAATCTGCTTTGTGATCATCATGATATCTCTTGGGATGGGTGACATCGTT	240			
Oy	752	TATTGAGCAATATGATGCTGATGCTGTATGATCTGCTGACAGCTTATMATCTGA	811			

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT	FEATURES	source	ORIGIN
2	(bases 1 to 1545)	Paraday Avenue	Genoscope.				
2	(bases 1 to 1545)	Paraday Avenue	Genoscope.				
1	Direct Submission	Genoscope - Centre National de Sequences ;					
1	BP 191 91008 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr)						
1	Web : www.genoscope.cns.fr)						
1	1st strand DNA was primed with a NotI-oligo(dT) primer. Five prime						
1	end enriched, double-strand cDNA was digested with Not I and cloned						
1	into the Not I and EcoR V sites of the pCMWSPORT v vector. Library						
1	diversification and library was constructed by Life Technologies. a						
1	division						
1	Location/Qualifiers						
1	l. 1545						
1	/organism="Homo sapiens"						
1	/mol_type="mRNA"						
1	/db_xref="db GeneBank U01966"						
1	/db_xref="db CCNCB Z11916"						
1	/tissue_type="Hela cells Cot 35-normalized"						
1	/plasmid="pCMWSPORT_v"						
512	64 bit; Score 938.4; DB 6; Length 1545;						
512	Best local similarity 95.71; P: 1.3e-197;						
512	Matches 951; Conservative						
512	1: Indels 2: Gaps 3:						
OY	512 GATCTCTTGCTGGCATCTGAAGATATCTGGCATATTTCTGCATAGACTCTTAC 571						
DB	* 1 GATCTCTTGCTGGCATCTGAAGATATCTGGCATATTTCTGCATAGACTCTTAC 60						
OY	572 ACCACAAAGATATACAGTATATCAATGAAGTCATGAGTTTCAGGCTGCATTG 631						
DB	612 ACCACAAAGATATACAGTATATCAATGAAGTCATGAGTTTCAGGCTGCATTG 120						
OY	631 GATGAGGAGGATATGAGTATCTTGGAGACTTATATCTGGCATGGATTTCTCA 691						
DB	121 GATGAGGAGGATATGAGTATCTTGGAGACTTATATCTGGCATGGATTTCTCA 180						
OY	692 TTGGAATCTGCTCTTGTGATCATGTAAATCTCTTTGGGATGGGTGCACATTGT 751						
OY	181 TTGGAATCTGCTCTTGTGATCATGTAAATCTCTTTGGGATGGGTGCACATTGT 240						
DB	752 TATTGGAATCTTGAATGATGCTGATATGATCTGCTCAACGCTTTATTCATGA 811						
OY	240 TATTGGAATCTTGAATGATGCTGATATGATCTGCTCAACGCTTTATTCATGA 811						

Qy	541	ACTTGGCACTATTTTCGTAGACTCTTACACC	ACAAAGATATACAAAGTATTATCAT	600
Ds	541	ACTTGGCACTATTTTCGTAGACTCTTACACC	ACAAAGATATACAAAGTATTATCAT	600
Qy	541	ACTTGGCACTATTTTCGTAGACTCTTACACC	ACAAAGATATACAAAGTATTATCAT	600
Ds	541	ACTTGGCACTATTTTCGTAGACTCTTACACC	ACAAAGATATACAAAGTATTATCAT	600
Qy	601	AAAGTTCATCATAGGTTTCAGGCTCTTTCGGAT	TGAGACGTGACGTGATATGCAATGCTTTGG	660
Ds	601	AAAGTTCATCATAGGTTTCAGGCTCTTTCGGAT	TGAGACGTGACGTGATATGCAATGCTTTGG	660
Qy	601	AAAGTTCATCATAGGTTTCAGGCTCTTTCGGAT	TGAGACGTGACGTGATATGCAATGCTTTGG	660
Ds	601	AAAGTTCATCATAGGTTTCAGGCTCTTTCGGAT	TGAGACGTGACGTGATATGCAATGCTTTGG	660
Qy	661	GAGACTCATTAATCTTGGCACTGGATTTTTCATG	TGCGAATCTGGTCTTTTGTGTGATCATGTA	720
Ds	661	GAGACTCATTAATCTTGGCACTGGATTTTTCATG	TGCGAATCTGGTCTTTTGTGTGATCATGTA	720
Qy	661	GAGACTCATTAATCTTGGCACTGGATTTTTCATG	TGCGAATCTGGTCTTTTGTGTGATCATGTA	720
Ds	661	GAGACTCATTAATCTTGGCACTGGATTTTTCATG	TGCGAATCTGGTCTTTTGTGTGATCATGTA	720
Qy	721	ATTTCTCTTTGGGCTAGCACTATGTTTATTAG	AAGCACTATGATGCTCATAGTGGT	780
Ds	721	ATTTCTCTTTGGGCTAGCACTATGTTTATTAG	AAGCACTATGATGCTCATAGTGGT	780
Qy	721	ATTTCTCTTTGGGCTAGCACTATGTTTATTAG	AAGCACTATGATGCTCATAGTGGT	780
Ds	721	ATTTCTCTTTGGGCTAGCACTATGTTTATTAG	AAGCACTATGATGCTCATAGTGGT	780
Qy	781	TATGATATATCTCTCTGACGCTTTAAATCTATG	CTCTTCTATGCTGGCTCTGGGACATCAT	840
Ds	781	TATGATATATCTCTCTGACGCTTTAAATCTATG	CTCTTCTATGCTGGCTCTGGGACATCAT	840
Qy	781	TATGATATATCTCTCTGACGCTTTAAATCTATG	CTCTTCTATGCTGGCTCTGGGACATCAT	840
Ds	781	TATGATATATCTCTCTGACGCTTTAAATCTATG	CTCTTCTATGCTGGCTCTGGGACATCAT	840
Qy	841	GATTTTCGACACATGACATTCATGGGAACATAG	CTTCCAACTATTCATAGTGGGATCGCA	900
Ds	841	GATTTTCGACACATGACATTCATGGGAACATAG	CTTCCAACTATTCATAGTGGGATCGCA	900
Qy	841	GATTTTCGACACATGACATTCATGGGAACATAG	CTTCCAACTATTCATAGTGGGATCGCA	900
Ds	841	GATTTTCGACACATGACATTCATGGGAACATAG	CTTCCAACTATTCATAGTGGGATCGCA	900
Qy	901	ATTTTGGAGACAGCTCTAGTATATGCTCATATG	CTCATCTATATGAAAGAGGAGAGTTTGGAAA	960
Ds	901	ATTTTGGAGACAGCTCTAGTATATGCTCATATG	CTCATCTATATGAAAGAGGAGAGTTTGGAAA	960
Qy	901	ATTTTGGAGACAGCTCTAGTATATGCTCATATG	CTCATCTATATGAAAGAGGAGAGTTTGGAAA	960
Ds	901	ATTTTGGAGACAGCTCTAGTATATGCTCATATG	CTCATCTATATGAAAGAGGAGAGTTTGGAAA	960
Qy	961	AGAGCTGAATAATCTACGATGAAGCTTCTCGA	AGAGTAAGGCTTTTCTGATTCAG	1020
Ds	961	AGAGCTGAATAATCTACGATGAAGCTTCTCGA	AGAGTAAGGCTTTTCTGATTCAG	1020
Qy	961	AGAGCTGAATAATCTACGATGAAGCTTCTCGA	AGAGTAAGGCTTTTCTGATTCAG	1020
Ds	961	AGAGCTGAATAATCTACGATGAAGCTTCTCGA	AGAGTAAGGCTTTTCTGATTCAG	1020
Qy	1021	AAAGCTAGCTATGATATGCTCTGCGAGACAGAT	TACGATATGCTCTGCGCTACTAG	1080
Ds	1021	AAAGCTAGCTATGATATGCTCTGCGAGACAGAT	TACGATATGCTCTGCGCTACTAG	1080
Qy	1021	AAAGCTAGCTATGATATGCTCTGCGAGACAGAT	TACGATATGCTCTGCGCTACTAG	1080
Ds	1021	AAAGCTAGCTATGATATGCTCTGCGAGACAGAT	TACGATATGCTCTGCGCTACTAG	1080
Qy	1081	TGATATAGAGACAGATTAGAGACTTTTAATAGCT	CTGCTGATGTTGGAGACTTTTCTACTTTA	1140
Ds	1081	TGATATAGAGACAGATTAGAGACTTTTAATAGCT	CTGCTGATGTTGGAGACTTTTCTACTTTA	1140
Qy	1081	TGATATAGAGACAGATTAGAGACTTTTAATAGCT	CTGCTGATGTTGGAGACTTTTCTACTTTA	1140
Ds	1081	TGATATAGAGACAGATTAGAGACTTTTAATAGCT	CTGCTGATGTTGGAGACTTTTCTACTTTA	1140
Qy	1141	CTGACAGGCTCATATATGAGAGATGAATATAT	ATATATATATAGTACGATCTTTCATGAG	1200
Ds	1141	CTGACAGGCTCATATATGAGAGATGAATATAT	ATATATATATAGTACGATCTTTCATGAG	1200
Qy	1141	CTGACAGGCTCATATATGAGAGATGAATATAT	ATATATATATAGTACGATCTTTCATGAG	1200
Ds	1141	CTGACAGGCTCATATATGAGAGATGAATATAT	ATATATATATAGTACGATCTTTCATGAG	1200

FEATURES	Location/Qualifiers	1..1741
source	/organism="Homo sapiens"	
	/mol_type="unassigned DNA"	
	/db_xref="taxon:9606"	
ORIGIN		
Query Match	98.81; Score 1447.8; DB 2; Length 1741;	
Best Local Similarity	99.71; Pred. No. 0;	
Matches 1461; Conservative 0; Mismatches 0;		
Oy	1 TGGCAAGCTGGGCAAGCTGGTGGTGGTGGGCGATGATGCGGGGGGTGGCA 60	
Db	1 TGGCAAGCTGGGCAAGCTCTGGTGGTGGTGGGCGGAGTCATCTGGGCGCTTCA 60	
Oy	61 ATTATAGCGCTGCTCGACAGATTGAAAATTGGCAAAATGAAGATCTGACGATCTTT 120	
Db	61 ATTATAGCTGCTCGACAGATTGAAAATTGGCAAAATGAAGATCTGACGATCTTT 120	
Oy	121 AGTCACGATCTCTGGCTGGGATATAGATTCACTTTACTCGAGATCTCTGCGAA 180	
Db	121 AGTCACGATCTCTGGCTGGGATATAGATTCACTTTACTCGAGATCTCTGCGAA 180	
Oy	181 GACGATTAAAATGCTTGGCACTATGTTGGATATATATATACAAAGTTCAGATGCA 240	
Db	181 GACGATTAAAATCTTGGCACTATGTTGGATATATATATACAAAGTTCAGATGCA 240	
Oy	241 ACATGGGATCTCTATAGTCTCAAGCGCTTATCTTATCTTGTTTACTCGGATTT 300	
Db	241 ACATGGGATCTCTTATAGTCTCAAGCGCTTATCTTATCTTGTTTACTCGGATTT 300	
Oy	301 TTATTTCAATTATACCTATATGAAAATACAAATTCAAAAGATAGGCAAGACCA 360	
Db	301 TTATTTCAATTATACCTTATATGAAAATACAAATTCAAAAGATAGGCAAGACCA 360	
Oy	361 TGGGAACCAATGGAGATGTTTCAGAGTCTCTCTTATCACTCTGTATCAAGCTG 420	
Db	361 TGGGAACCAATGGAGATGTTTCAGAGTCTCTCTTATCACTCTGTATCAAGCTG 420	
Oy	421 CTTTGATTTGGAGACTATTATTTACAGAGATTCTCATATCTCTATGATGGGAA 480	
Db	421 CTTTGATTTGGAGACTATTATTTACAGAGATTCTCATATCTCTATGATGGGAA 480	
Oy	481 AGATCCAGATGCGATTTCTTTGGGAGATGCTTTGGTCTGGCATCATGATGAT 540	
Db	481 AGATCCAGATGCGATTTCTTTGGGAGATGCTTTGGTCTGGCATCATGATGAT 540	

[illegible][illegible]

Oy	1201	GAAGTTTAAAGACATGCTTCAGCTTCAGAGAGTTTGGACTACAGAGATTA	1260
Ds	1201	GAAGTTTAAAGACATGCTTCAGCTTCAGAGAGTTTGGACTACAGAGATTA	1260
Oy	1261	ATCTATGGCTTCTCCAGGTAAAGCATAGGCTGAGGTTCAGATCGGCTTTAAATC	1320
Ds	1261	ATCTATGGCTTCTCCAGGTAAAGCATAGGCTGAGGTTCAGATCGGCTTTAAATC	1320
Oy	1321	TTTAAATATATAGTCTATTCAGAAATCTCAATAGTGTATGGCTTATATTA	1380
Ds	1321	TTTAAATATATAGTCTATTCAGAAATCTCAATAGTGTATGGCTTATATTA	1380
Oy	1381	ACTTTATTTATTTTATTTTGAAGAACCA--CACTGTGCTGCTGTGGAGTC	1440
Ds	1381	ACTTTATTTATTTTATTTTGAAGAACCA--CACTGTGCTGCTGTGGAGTC	1440
Oy	1441	TGCTGGACAGTCCAGCTCACTGC	1465
Ds	1439	TGCTGGACAGTCCAGCTCACTGC	1463
RESULT 4			
CQ15218			
LOCUS			
DEFINITION			
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
FEATURES			
source			

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089414&ItemName=20070202_145101_us-10-753-267-19.rge. Page 15 of 23

SCORE Search Results Details for Application 10753267 and Search Result 20070202_145101_us-10-753-267-19.rge. Page 16 of 23

Ds	541	GATCTGGGCACTATTTCTGCAAGACTCTTACAGCAAGAAAGATACAGATAT	600
Oy	598	CATAAAGTATCATAGATTTGAGTCCGATTTGGATGGAGTGAATATGCAATCT	657
Ds	601	CATAAAGTATCATAGATTTGAGTCCGATTTGGATGGAGTGAATATGCAATCT	660
Oy	658	TTGAGACTCATATCTTGAAGTGGATTTTCAATGGATGGATGGCTTTTGGATCAT	717
Ds	661	TTGAGACTCATATCTTGAAGTGGATTTTCAATGGATGGATGGCTTTTGGATCAT	720
Oy	718	GTATATCTCTTTGGGATGGGAGCACTCTTATTAAGAACTATGATGCTCATAGT	777
Ds	721	GTATATCTCTTTGGGATGGGAGCACTCTTATTAAGAACTATGATGCTCATAGT	780
Oy	778	GGTATGATATCTCTCTCAAGCTTTAAATGATGCTCTTCAATGCTGGGAT	837
Ds	781	GGTATGATATCTCTCTCAAGCTTTAAATGATGCTCTTCAATGCTGGGAT	840
Oy	838	CATATTCACCAACATGATCTTATGGAAGTATGCTTCAGCATTTACATGCTGGAT	897
Ds	841	CATATTCACCAACATGATCTTATGGAAGTATGCTTCAGCATTTACATGCTGGAT	900
Oy	898	CGAATTTGAGACATGATCTTATGGAAGTATGCTTCAGCATTTACATGCTGGAT	957
Ds	901	CGAATTTGAGACATGATCTTATGGAAGTATGCTTCAGCATTTACATGCTGGAT	960
Oy	958	AAAGAGATGAATATATCTCAAGTAACTCTTCAAGATTAACCTTTCTGGAAT	1017
Ds	961	AAAGAGATGAATATATCTCAAGTAACTCTTCAAGATTAACCTTTCTGGAAT	1020
Oy	1018	CAGAACTAGTATGATATGCTTGGAGAGAGAAATAGCTGTCTGGCTCAT	1077
Ds	1021	CAGAACTAGTATGATATGCTTGGAGAGAGAAATAGCTGTCTGGCTCAT	1080
Oy	1078	AAGTATTAAGAGACATTAACCACTTTATACCTGATGCTGAGGACTTTTCTACT	1137
Ds	1081	AAGTATTAAGAGACATTAACCACTTTATACCTGATGCTGAGGACTTTTCTACT	1140
Oy	1138	TTAGCTAGTCTATATGAGAAATTAATTAATTAATTAATTAATTAATTAATTAAT	1197
Ds	1141	TTAGCTAGTCTATATGAGAAATTAATTAATTAATTAATTAATTAATTAATTAAT	1200
Oy	1198	GAGGAGGTTTAAAGACATCTCTCAAGTCTGAGAGAGTTTGGATACAGAGTA	1257
Ds	1201	GAGGAGGTTTAAAGACATCTCTCAAGTCTGAGAGAGTTTGGATACAGAGTA	1260

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089414&ItemName=20070202_145101_us-10-753-267-19.rge. Page 16 of 23

/db_xref=taxon:9606			
ORIGIN			
Query Match			
Best Local Similarity 99.6%; Score 1416.4; DB 2; Length 1744;			
Matches 1462; Conservative 0; Mismatches 1; Indels 5; Gaps 4;			
Oy	1	TTGGAGACATGCGGAGCTCTGGGTGCGGTGGGCGGAGATGATCGGCGGCTTCA	60
Ds	1	TTGGAGACATGCGGAGCTCTGGGTGCGGTGGGCGGAGATGATCGGCGGCTTCA	60
Oy	61	ATTATAGGCTCTCTGAGAGATTTGAAAATATGCAAAATGAAAGTGTACAGATCTT	120
Ds	61	ATTATAGGCTCTCTGAGAGATTTGAAAATATGCAAAATGAAAGTGTACAGATCTT	120
Oy	121	AGTATAGGCTCTCTGAGAGATTTGAAAATATGCAAAATGAAAGTGTACAGATCTT	179
Ds	121	AGTATAGGCTCTCTGAGAGATTTGAAAATATGCAAAATGAAAGTGTACAGATCTT	180
Oy	180	AG-AACCAATTAAATATCTTGGAGTATATGTTGAATATATATACAAAGTTCAG-ATT	237
Ds	181	AGAACCTTTAAATATCTTGGAGTATATGTTGAATATATATACAAAGTTCAGATT	240
Oy	238	GCACATGGGATCCCTTATAGTCAATGAGCCCTTTATTTCTATCTTACTGCGA	297
Ds	241	GCACATGGGATCCCTTATAGTCAATGAGCCCTTTATTTCTATCTTACTGCGA	300
Oy	298	TTTTATTTGAATTTACCTTATATGAAAATATGAAAATATGAAAATATGAAAAT	357
Ds	301	TTTTATTTGAATTTACCTTATATGAAAATATGAAAATATGAAAATATGAAAAT	360
Oy	358	ACATGGGAAAGCATGAGATGTTTCAAGATGCTCTCTTATCAGTCTGTATCAG	417
Ds	361	ACATGGGAAAGCATGAGATGTTTCAAGATGCTCTCTTATCAGTCTGTATCAG	420
Oy	418	CTGGCTTGAATTTGAGAACTATATTTACAGAGATTTGAAATCTTCTATGATGG	477
Ds	421	CTGGCTTGAATTTGAGAACTATATTTACAGAGATTTGAAATCTTCTATGATGG	480
Oy	478	GAAGATGCGAAGATGTTATTTCTTTTGGCAAGATGCTTGGTGTGAGCATGAA	537
Ds	481	GAAGATGCGAAGATGTTATTTCTTTTGGCAAGATGCTTGGTGTGAGCATGAA	540
Oy	538	GATATGCGCACTATTTCTGCAAGCTTTTACAGAGATTTGAAATCTTCTATGATGG	597

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089414&ItemName=20070202_145101_us-10-753-267-19.rge. Page 16 of 23

SCORE Search Results Details for Application 10753267 and Search Result 20070202_145101_us-10-753-267-19.rge. Page 16 of 23

Oy	1258	TTATCTATGGCTTTCTGCGAGTAAAGCATAGGCTGAGCTGACATGGGTCTTAA	1317
Ds	1261	TTATCTATGGCTTTCTGCGAGTAAAGCATAGGCTGAGCTGACATGGGTCTTAA	1320
Oy	1318	ATCTTTAGATATATGCTGATTTTCAAGAAATCTCTCATGATGGTATGGCTTAT	1377
Ds	1321	ATCTTTAGATATATGCTGATTTTCAAGAAATCTCTCATGATGGTATGGCTTAT	1380
Oy	1378	TTAAGCTTTTATTTTCTTGGAGCAAGCAAGCTGCTGCTGCTGGCTGA	1437
Ds	1381	TTAAGCTTTTATTTTCTTGGAGCAAGCAAGCTGCTGCTGCTGGCTGA	1438
Oy	1438	GTGTGGGCAAGCTCAAGTCACTGC	1465
Ds	1439	GTGTGGGCAAGCTCAAGTCACTGC	1466
RESULT 5			
BC107879			
LOCUS			
DEFINITION			
ACCESSION			
VERSION			
KEYWORDS			
ORGANISM			
REFERENCE			
AUTHORS			

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089414&ItemName=20070202_145101_us-10-753-267-19.rge. Page 16 of 23

Oy	61	ATTATAGCGTGTCTGCGAGATTTGAAATATGCAAGTGAAGATGTGCAATCTTT	120
Ds	61	ATTATAGCGTGTCTGCGAGATTTGAAATATGCAAGTGAAGATGTGCAATCTTT	120
Oy	121	AGTCAGCATCTGGCTGTGGATATAGATTAAGTATTTACCTGAGATCTCTGCA	180
Ds	121	AGTCAGCATCTGGCTGTGGATATAGATTAAGTATTTACCTGAGATCTCTGCA	180
Oy	181	GAACGATTAATAATGCTGTGGATATATGATTAATATACAAAGTCTGAGATGCA	240
Ds	181	GAACGATTAATAATGCTGTGGATATATGATTAATATACAAAGTCTGAGATGCA	240
Oy	241	ACATGGGATCTCTATGATATGAGGCTCTATTTCTTATCTGTCTTACCTGGATT	300
Ds	241	ACATGGGATCTCTATGATATGAGGCTCTATTTCTTATCTGTCTTACCTGGATT	300
Oy	301	TATTTTCATTAATACCTATATGAAATATCAAAATATCAAAATATCAAAATATCA	360
Ds	301	TATTTTCATTAATACCTATATGAAATATCAAAATATCAAAATATCAAAATATCA	360
Oy	361	TGGGAAGGATGAGATGTGCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	420
Ds	361	TGGGAAGGATGAGATGTGCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	420
Oy	421	CTTTTATTTGTGGACCTATATTTTACAGATATTTCAATATCTCTATGATGGAA	480
Ds	421	CTTTTATTTGTGGACCTATATTTTACAGATATTTCAATATCTCTATGATGGAA	480
Oy	481	ACATGCGAGATGCTATTTCTGCGAGATGCTGCTGCTGCTGCTGCTGCTGCTG	540
Ds	481	ACATGCGAGATGCTATTTCTGCGAGATGCTGCTGCTGCTGCTGCTGCTGCTG	540
Oy	541	ACTTGGGATATTTCTGATAGACTCTTACAGCAAGATATCAAGTATATTCAT	600
Ds	541	ACTTGGGATATTTCTGATAGACTCTTACAGCAAGATATCAAGTATATTCAT	600
Oy	601	AAATGCTATCATGCTTCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	660
Ds	601	AAATGCTATCATGCTTCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	660
Oy	661	GAGACTATATCTTGGAGCTGGATTTTCTGATGAGATGCTGCTGCTGCTGCTG	720
Ds	661	GAGACTATATCTTGGAGCTGGATTTTCTGATGAGATGCTGCTGCTGCTGCTG	720

http://es.ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089413&ItemName=20070202_145059_us-10-753-267-19... 28/07

Ds	1381	ACTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT	1438
Oy	1441	TGCTGGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1498
Ds	1439	TGCTGGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1498
RESULT 4			
AC12183			
ID	AC12183	standard: DNA: 1741 BP.	
XX	AC	AC12183:	
XX	DT	17-NOV-2005 (first entry)	
XX	DE	Human surrogate marker of neuropathic pain DNA SEQ ID NO 529.	
XX	DE	Analgesic: Neuroprotective/ neuropathic pain: neurological disease: ds.	
XX	XX	Homo sapiens.	
XX	XX	W0205083125-A2.	
XX	XX	05-SEP-2005.	
XX	XX	18-FEB-2005; 2005W0-U0005250.	
XX	XX	20-FEB-2004; 2004U5-00784004.	
XX	XX	(BIOJ) BIOGEN IDEC MA INC.	
XX	XX	Sah DWY, Cate R, Eichenfels CV, Szak S, Bandaru R;	
XX	XX	NF1; 2005-619201/63.	
XX	XX	Identifying a surrogate marker of neuropathic pain in a mammal (e.g. human), useful for treating neuropathies, comprises determining the	
XX	XX	amount of certain genes in tissue extracts from skin	
XX	XX	biopsies.	
XX	XX	Claim 16: SEQ ID NO 529; 115pp: English.	
XX	XX	The invention relates to a method of identifying a surrogate marker of	
XX	XX	neuropathic pain in a mammal comprising determining the expression or	

http://es.ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089413&ItemName=20070202_145059_us-10-753-267-19... 28/07

Oy	721	ATTCCTGCTGGGATGGGAGCAATCTGTTTATTAAGAACTATTAATGTCTCATGTGT	780
Ds	721	ATTCCTGCTGGGATGGGAGCAATCTGTTTATTAAGAACTATTAATGTCTCATGTGT	780
Oy	781	TATGATATCTCTCAACCTTTAAATCTGCTCTTCTATGCTGTCTGCGCATCAT	840
Ds	781	TATGATATCTCTCAACCTTTAAATCTGCTCTTCTATGCTGTCTGCGCATCAT	840
Oy	841	GATTCGACGATGATGCTGCTGCAAGTATGCTGCTGCTGCTGCTGCTGCTGCTG	900
Ds	841	GATTCGACGATGATGCTGCTGCAAGTATGCTGCTGCTGCTGCTGCTGCTGCTG	900
Oy	901	ATTTTGGAGCACTCTGATTAATGCTCTAATGAAGAGGAGAAAGTTTGAGAA	960
Ds	901	ATTTTGGAGCACTCTGATTAATGCTCTAATGAAGAGGAGAAAGTTTGAGAA	960
Oy	961	AGAGCTGAATATATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1020
Ds	961	AGAGCTGAATATATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1020
Oy	1021	AACTAGTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1080
Ds	1021	AACTAGTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1080
Oy	1081	TGATTAAGAGCAATTAAGCACTTTTACCTCTCTGCTGCTGCTGCTGCTGCTGCTG	1140
Ds	1081	TGATTAAGAGCAATTAAGCACTTTTACCTCTCTGCTGCTGCTGCTGCTGCTGCTG	1140
Oy	1141	CCTACAGCTCTATATGATGAATTAATATTAATTAAGTACAGTTTTCATGAG	1200
Ds	1141	CCTACAGCTCTATATGATGAATTAATATTAATTAAGTACAGTTTTCATGAG	1200
Oy	1201	GAGTTTAAAGCACTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1260
Ds	1201	GAGTTTAAAGCACTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1260
Oy	1261	ATCTATGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1320
Ds	1261	ATCTATGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1320
Oy	1321	TTTTAGATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1380
Ds	1321	TTTTAGATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1380
Oy	1381	ACTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT	1440

http://es.ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089413&ItemName=20070202_145059_us-10-753-267-19... 28/07

CC amount of certain genes in tissue extracts from skin biopsies. The
biological activity of drugs or compounds is determined by the
CC biological activity of drugs or compounds is determined by the
CC treating neuropathies. The present sequence represents a human surrogate
marker of neuropathic pain DNA.

XX	50	Sequence 1741 BP: 499 A; 336 G; 324 T; 582 T; 0 C; 0 G; 0 Other;	
Query Match	98.81;	Score 1447.8;	DB 14;
BLAST Similarity	99.71;	Percent Identity	1741;
Matches 1461;	Conservative	2;	Indels 2;
Gaps	1;		
Oy	1	TTGGAACACCTGGCAGCTCTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	60
Ds	1	TTGGAACACCTGGCAGCTCTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	60
Oy	61	ATTATAGGCTGTCTGAGATTTGAAATATGCAAGTGAAGTGTGAGATCTTT	120
Ds	61	ATTATAGGCTGTCTGAGATTTGAAATATGCAAGTGAAGTGTGAGATCTTT	120
Oy	121	AGTTGACATCTTGGCTGGAATATGATTCAGTTTACCTGAGATCTCTGCA	180
Ds	121	AGTTGACATCTTGGCTGGAATATGATTCAGTTTACCTGAGATCTCTGCA	180
Oy	181	GACATTTTAAATCTGGAATATGATTCAGTTTACCTGAGATCTCTGCA	240
Ds	181	GACATTTTAAATCTGGAATATGATTCAGTTTACCTGAGATCTCTGCA	240
Oy	241	ACATGGGATCTCTATGATGAGGCTTTATTTCTTATCTGCTGCTGCTGCTGCTG	300
Ds	241	ACATGGGATCTCTATGATGAGGCTTTATTTCTTATCTGCTGCTGCTGCTGCTG	300
Oy	301	TATTTCAATTAATGCTTATGAAATATCAAAATATCAAAATATCAAAATATCAAA	360
Ds	301	TATTTCAATTAATGCTTATGAAATATCAAAATATCAAAATATCAAAATATCAAA	360
Oy	361	TGGGAAGGATGAGATGTGCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	420
Ds	361	TGGGAAGGATGAGATGTGCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	420
Oy	421	CTTTGATTTGGACCTATATTTTACAGATATTTCAATATCTCTATGATGGAA	480
Ds	421	CTTTGATTTGGACCTATATTTTACAGATATTTCAATATCTCTATGATGGAA	480
Oy	481	AGATGCGAGATGCTATTTCTGCGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG	540

http://es.ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089413&ItemName=20070202_145059_us-10-753-267-19... 28/07

OY 1027 GTAGCTACATTCCTGGAGAGCAATAGCATGCTCTCTGGCTACTAGTGATGA 1086
|||||
DB 961 GTAGCTACATTCCTGGAGAGCAATAGCATGCTCTCTGGCTACTAGTGATGA 1020
|||||
OY 1087 AAGAGACATTAAGACATTTATTAAGCTTCTAGGGAAGCTTTCTACTTACTTGA 1146
|||||
DB 1021 AAGAGACATTAAGACATTTATTAAGCTTCTAGGGAAGCTTTCTACTTACTTGA 1080
|||||
OY 1147 AGTCTATATATGAGAAATGAATATATATTAAGTACAGATTTTCATGAGAGTT 1206
|||||
DB 1091 AGTCTATATATGAGAAATGAATATATATTAAGTACAGATTTTCATGAGAGTT 1140
|||||
OY 1207 TTAAGACATTCCTAGCTGAGAGAGCTTTGGAGTCTAGAGATTAATATATAT 1266
|||||
DB 1141 TTAAGACATTCCTAGCTGAGAGAGCTTTGGAGTCTAGAGATTAATATATAT 1200
|||||
OY 1267 GCGTTTCTCTAGTAAAGACATAGGCTGAGTACAGATTCGATGGGTCTTAAATCTTTTGA 1326
|||||
DB 1201 GCGTTTCTCTAGTAAAGACATAGGCTGAGTACAGATTCGATGGGTCTTAAATCTTTTGA 1260
|||||
OY 1327 ATATATAGCTGATTTTCAAGAAATCTCTCAATAGGTATTTGGCTTATTAATCTTT 1386
|||||
DB 1261 ATATATAGCTGATTTTCAAGAAATCTCTCAATAGGTATTTGGCTTATTAATCTTT 1320
|||||
OY 1387 TTTTATTTTTTTTTTGAAGAGCAAGCAACTCTCTCTCTGGTGGAGTCTGGTG 1446
|||||
DB 1321 TTTTATTTTTTTTTTGAAGAGCAAGCAACTCTCTCTCTGGTGGAGTCTGGTG 1378
|||||
OY 1447 CAGAGTCTAGCTACTGC 1465
|||||
DB 1379 CAGAGTCTAGCTACTGC 1397
|||||

RESULT 6
AD019682 standard; cDNA; 1944 BP.
XX AD019682
AC AD019682:
XX
DT 12-AUG-2004 (first entry)
XX
DE Human PRO polynucleotide P305.
XX
KW Human; PRO; gene; ser; immune related disorder;
KW systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis;

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089413&ItemName=20070202_145059_us-10-753-267-19.r... 28/07

XX
30 Sequence 1944 BP: 573 A; 363 C; 353 G; 655 T; 0 U; 0 Other;
Query Match 94.41; Score 1383.4; DB 12; Length 1944;
Best Local Similarity 99.81; Pred. No. 9.6e-300;
Matches 1396; Conservative 0; Mismatches 1; Indels 2; Gaps 1;
OY 67 AGGCTCTCGAGAGTTTGAAGATGGGACAAATGAAGTGCAGGATCTTACTTGA 126
|||||
DB 1 AGGCTCTCGAGAGTTTGAAGATGGGACAAATGAAGTGCAGGATCTTACTTGA 60
|||||
OY 127 GCATCTCTGGCTGGATATGTAGATTCATTTTACTGAGATCTCTCGAGAGCA 186
|||||
DB 61 GCATCTCTGGCTGGATATGTAGATTCATTTTACTGAGATCTCTCGAGAGCA 120
|||||
OY 187 TTTAAATATCTTGGAGCTATATGTGATTAATATACAAAGTTCAGATTCGACATGG 246
|||||
DB 121 TTTAAATATCTTGGAGCTATATGTGATTAATATACAAAGTTCAGATTCGACATGG 180
|||||
OY 247 GCATCTCTATGATTCATGAAGGCTTTTATCTTCTTACTGATTTTATTT 306
|||||

MAIL DALLDERS
SCORE 13.0 0.00000 1/1/1/2004

KW juvenile chronic arthritis; systemic sclerosis; Sjogren's syndrome;
KW vasculitis; sarcoidosis; autoimmune hemolytic anemia;
KW autoimmune thrombocytopenia; thyroiditis; diabetes mellitus;
KW renal disease; demyelinating disease; central nervous system;
KW peripheral nervous system; demyelinating polyneuropathy;
KW Guillain-Barre syndrome;
KW Chronic inflammatory demyelinating polyneuropathy.
OS
XX Homo sapiens.
XX WO200404361-A2.
XX
XX 27-MAY-2004.
XX
XX 06-NOV-2003; 2003NO-US035268.
XX
XX 08-NOV-2002; 2002US-0425235P.
XX
XX (GETH) GENE/TECH INC.
XX Fong S, Dennis K, Clark H, Chiu H, Schoenfeld J, Williams PH:
XX Wood WJ, Au TD:
XX WPI; 2004-420067/39.
XX P-PSDB; AD019683.
XX
XX Novel PRO polypeptide e.g., PRO69614, PRO71106, or PRO6388 useful for
XX treating an immune related disorder such as systemic lupus erythematosus,
XX rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis or
XX spondyloarthritis.
XX
XX Claim 1: SEQ ID NO 628; 1731pp; English.
XX
XX The invention relates to human PRO polypeptides and the polynucleotides
XX encoding them. The polypeptides and polynucleotides are useful for
XX treating and diagnosing immune related disorders in mammals. The immune
XX related disorders include systemic lupus erythematosus, rheumatoid
XX arthritis, osteoarthritis, juvenile chronic arthritis, sarcoidosis,
XX sclerosis, Sjogren's syndrome, vasculitis, sarcoidosis, autoimmune
XX hemolytic anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes
XX mellitus, immune-mediated renal disease, demyelinating diseases of the
XX central or peripheral nervous system, demyelinating polyneuropathy,
XX Guillain-Barre syndrome and chronic inflammatory demyelinating
XX polyneuropathy. This sequence represents a human PRO polynucleotide of
XX the invention.

http://es/ScoreAccessWeb/CelItem.action?AppId=10753267&seqId=1089413&ItemName=20070202_145059_us-10-753-267-19.r... 28/07